



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 104488

TO: Karen A Lacourciere
Location: CM1-11D09/11E12
Art Unit: 1635
Wednesday, September 24, 2003
Case Serial Number: 09/898556

From: Paul Schulwitz
Location: Biotech-Chem Library
CM1-6B06
Phone: 305-1954

paul.schulwitz@uspto.gov

Search Notes

Examiner Lacourciere,

See attached results.

If you have any questions about this search feel free to contact me at any time.

Thank you for using STIC search services!

Paul Schulwitz
Technical Information Specialist
STIC Biotech/Chem Library
(703)305-1954

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OM nucleic - nucleic search, using sw model

Run on: September 24, 2003, 10:52:38 ; Search time 0.001 Seconds
(without alignments)
2.840 Million cell updates/sec

Title: us-09-898-556a-3
Perfect score: 20
Sequence: 1 gctcaataaattcttct 20

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 0.5

Searched: 7 seqs, 71 residues

Total number of hits satisfying chosen parameters: 14

Minimum DB seq length: 0
Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :
.seq:
1: /home/spaul/0903/laacourciere556/rni/09305408-11.seq:*
2: /home/spaul/0903/laacourciere556/rni/08388353-737.seq:*
3: /home/spaul/0903/laacourciere556/rni/08173489-73.seq:*
4: /home/spaul/0903/laacourciere556/rni/08440787-65.seq:*
5: /home/spaul/0903/laacourciere556/rni/08388353-738.seq:*
6: /home/spaul/0903/laacourciere556/rni/08488551-738.seq:*
7: /home/spaul/0903/laacourciere556/rni/08488551-737.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	9	45.0	10	1	us-09-305-408-11
2	9	45.0	10	2	us-08-388-353-737
3	9	45.0	10	4	us-08-440-787a-65
4	9	45.0	10	5	us-08-388-353-738
5	9	45.0	10	6	us-08-488-551b-738
6	9	45.0	10	7	us-08-488-551b-737
7	9	45.0	11	3	us-08-173-489c-73
8	5.8	29.0	10	1	us-09-305-408-11
9	5.8	29.0	10	4	us-08-440-787a-65
10	5.4	27.0	11	3	us-08-173-489c-73
11	4	20.0	10	5	us-08-388-353-738
12	4	20.0	10	6	us-08-488-551b-738
13	3.4	17.0	10	2	us-08-388-353-737
14	3.4	17.0	10	7	us-08-488-551b-737

ALIGNMENTS

RESULT 1
us-09-305-408-11/c

Query Match
Best Local Similarity 45.0%; Score 9; DB 1; Length 10;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2745 AAAATTCCTT 2753
Db 9 AAAATTCCTT 1

RESULT 2
us-08-388-353-737

Query Match
Best Local Similarity 45.0%; Score 9; DB 2; Length 10;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2739 CTCATATATA 2747
Db 2 CTCATATATA 10

RESULT 3
us-08-440-787a-65

Query Match
Best Local Similarity 45.0%; Score 9; DB 4; Length 10;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2747 AATTCCTTTT 2755
Db 1 AATTCCTTTT 9

RESULT 4
us-08-388-353-738

Query Match
Best Local Similarity 45.0%; Score 9; DB 5; Length 10;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2739 CTCATATATA 2747
Db 1 CTCATATATA 9

RESULT 5
us-08-488-551b-738

Query Match
Best Local Similarity 45.0%; Score 9; DB 6; Length 10;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2739 CTCATATATA 2747
Db 1 CTCATATATA 9

RESULT 6
us-08-488-551b-737

Query Match
Best Local Similarity 45.0%; Score 9; DB 7; Length 10;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2739 CTCATATATA 2747
Db 2 CTCATATATA 10

RESULT 7
us-08-173-489c-73/c

Query Match
Best Local Similarity 45.0%; Score 9; DB 3; Length 11;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 9 TTTCTTTCT 1

RESULT 8
us-09-305-408-11

Query Match 29.0%; Score 5.8; DB 1; Length 10;
Best Local Similarity 77.8%; Pred. No. 8.6;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 2745 AAAATTTCT 2753
1 1 1 1 1 1
Db 2 AGAATTTT 10

RESULT 9
us-08-440-787a-65/c

Query Match 29.0%; Score 5.8; DB 4; Length 10;
Best Local Similarity 77.8%; Pred. No. 8.6;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 2742 AATAAATT 2750
1 1 1 1 1 1
Db 9 AAAAGATT 1

RESULT 10
us-08-173-489c-73

Query Match 27.0%; Score 5.4; DB 3; Length 11;
Best Local Similarity 85.7%; Pred. No. 8.9;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2742 AATAAA 2748
1 1 1 1 1
Db 5 AAGAAAA 11

RESULT 11
us-08-388-353-738/c

Query Match 20.0%; Score 4; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. No. 13;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2751 CTTT 2754
1 1 1 1
Db 10 CTTT 7

RESULT 12
us-08-488-551b-738/c

Query Match 20.0%; Score 4; DB 6; Length 10;
Best Local Similarity 100.0%; Pred. No. 13;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2751 CTTT 2754
1 1 1 1
Db 10 CTTT 7

RESULT 13
us-08-388-353-737/c

Query Match 17.0%; Score 3.4; DB 2; Length 10;
Best Local Similarity 80.0%; Pred. No. 14;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2753 TTTCT 2757
1 1 1 1

Db 10 TTTAT 6

RESULT 14
us-08-488-551b-737/c

Query Match 17.0%; Score 3.4; DB 7; Length 10;
Best Local Similarity 80.0%; Pred. No. 14;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2753 TTTCT 2757
1 1 1 1
Db 10 TTTAT 6

Search completed: September 24, 2003, 10:52:38
Job time : 0.001 secs

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OM nucleic - nucleic search, using sw model

Run on: September 24, 2003, 11:23:23 ; Search time 1 Seconds
(without alignments)
2.062 Million cell updates/sec

Title: us-09-898-556a-3

Perfect score: 20

Sequence: 1 gctcaataaattcttctt 20

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 0.5

Searched: 2749 seqs, 51545 residues

Total number of hits satisfying chosen parameters: 5290

Minimum DB seq length: 0
Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :
.seq:
1: /home/spaul/0903/laacourclere556/rnpb/US09898556A.seq:*
2: /home/spaul/0903/laacourclere556/rnpb/US1023765.seq:*
3: /home/spaul/0903/laacourclere556/rnpb/US10329465.seq:*
4: /home/spaul/0903/laacourclere556/rnpb/US10033145.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	20	100.0	20	1	US-09-898-556A-81
2	9.2	46.0	38	3	US-10-329-465-284
3	9	45.0	10	2	US-10-323-765-268
4	9	45.0	10	3	US-10-329-465-80
5	9	45.0	10	4	US-10-033-145-207
6	9	45.0	38	3	US-10-329-465-284
7	8.6	43.0	46	3	US-10-329-465-263
8	8.6	43.0	46	3	US-10-329-465-263
9	8.4	42.0	10	4	US-10-033-145-106
10	8.4	42.0	10	4	US-10-033-145-163
11	8.2	41.0	44	3	US-10-329-465-294
12	8	40.0	10	4	US-10-033-145-137
13	8	40.0	10	4	US-10-033-145-1047
14	8	40.0	10	4	US-10-033-145-1063
15	8	40.0	10	4	US-10-033-145-1525
16	8	40.0	10	4	US-10-033-145-1804
17	8	40.0	10	4	US-10-033-145-2042
18	7.8	39.0	47	3	US-10-329-465-297
19	7.6	38.0	20	1	US-09-898-556A-81
20	7.6	38.0	48	3	US-10-329-465-251
21	7.4	37.0	10	3	US-10-329-465-41
22	7.4	37.0	10	3	US-10-329-465-71
23	7.4	37.0	10	3	US-10-329-465-113
24	7.4	37.0	10	4	US-10-033-145-189
25	7.4	37.0	10	4	US-10-033-145-327
26	7.4	37.0	10	4	US-10-033-145-337
27	7.4	37.0	10	4	US-10-033-145-866
28	7.4	37.0	10	4	US-10-033-145-1149
29	7.4	37.0	10	4	US-10-033-145-1596

c 30	7.4	37.0	10	4	US-10-033-145-1684	Sequence 1684, Ap
c 31	7.4	37.0	10	4	US-10-033-145-1690	Sequence 1690, Ap
c 32	7.4	37.0	10	4	US-10-033-145-2062	Sequence 2062, Ap
c 33	7.4	37.0	20	1	US-09-898-556A-53	Sequence 53, Appl
c 34	7.4	37.0	31	3	US-10-329-465-281	Sequence 281, Appl
c 35	7.4	37.0	47	3	US-10-329-465-297	Sequence 297, Appl
c 36	7.4	37.0	48	3	US-10-329-465-251	Sequence 251, Appl
c 37	7.4	37.0	10	2	US-10-323-765-251	Sequence 250, Appl
c 38	7.4	37.0	10	3	US-10-329-465-160	Sequence 160, Appl
c 39	7.4	37.0	10	4	US-10-033-145-186	Sequence 186, Appl
c 40	7.4	37.0	10	4	US-10-033-145-377	Sequence 377, Appl
c 41	7.4	37.0	10	4	US-10-033-145-436	Sequence 436, Appl
c 42	7.4	37.0	10	4	US-10-033-145-592	Sequence 592, Appl
c 43	7.4	37.0	10	4	US-10-033-145-848	Sequence 848, Appl
c 44	7.4	37.0	10	4	US-10-033-145-872	Sequence 872, Appl
c 45	7.4	37.0	10	4	US-10-033-145-964	Sequence 964, Appl

ALIGNMENTS

RESULT 1
US-09-898-556A-81/c
; Sequence 81, Application US/09898556A
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Susan M. Freier
; TITLE OF INVENTION: ANTISENSE MODULATION OF HKR1 EXPRESSION
; FILE REFERENCE: RTS-0248
; CURRENT APPLICATION NUMBER: US/09/898,556A
; CURRENT FILING DATE: 2001-07-03
; NUMBER OF SEQ ID NOS: 89
; SEQ ID NO 81
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-09-898-556A-81

Query Match 100.0%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.0014;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 2738 GCTCATTAATCTTCT 2757
Db 20 GCTCATTAATCTTCT 1

RESULT 2
US-10-329-465-284
; Sequence 284, Application US/10329465
; GENERAL INFORMATION:
; APPLICANT: Wang et al.
; TITLE OF INVENTION: GENES ABNORMALLY EXPRESSED IN MYELOID LEUKEMIA CELLS WITH AN M
; FILE REFERENCE: 27373/37928A
; CURRENT APPLICATION NUMBER: US/10/329,465
; CURRENT FILING DATE: 2002-12-23
; PRIOR APPLICATION NUMBER: US 60/343,826
; NUMBER OF SEQ ID NOS: 315
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 284
; LENGTH: 38
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-10-329-465-284

Query Match 46.0%; Score 9.2; DB 3; Length 38;
Best Local Similarity 78.0%; Pred. No. 39;

Matches 11; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 2742 AATAAATCTTCT 2755
||||| | | | |
DB 13 AATAAAGTTTAT 26

RESULT 3
US-10-223-765-268/c
; Sequence 268, Application US/10223765
; GENERAL INFORMATION:
; APPLICANT: Kim, Jin-Soo
; APPLICANT: Bae, Kwang-Hee
; APPLICANT: Park, Kyung-Soon
; APPLICANT: Kwon, Young Do
; APPLICANT: Ryu, Eun-Hyun
; APPLICANT: Hwang, Moon-Sun
; TITLE OF INVENTION: ZINC FINGER DOMAIN LIBRARIES
; FILE REFERENCE: 12279-005001
; CURRENT APPLICATION NUMBER: US/10/223,765
; CURRENT FILING DATE: 2002-08-19
; PRIOR APPLICATION NUMBER: 60/374,355
; PRIOR FILING DATE: 2002-04-22
; PRIOR APPLICATION NUMBER: 60/313,402
; PRIOR FILING DATE: 2001-08-17
; NUMBER OF SEQ ID NOS: 305
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 268
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetically generated oligonucleotide
US-10-223-765-268

Query Match 45.0%; Score 9; DB 2; Length 10;
Best Local Similarity 100.0%; Pred. No. 34;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2749 TTCCTTCT 2757
|||||
DB 9 TTCCTTCT 1

RESULT 4
US-10-329-465-80/c
; Sequence 80, Application US/10329465
; GENERAL INFORMATION:
; APPLICANT: Wang et al.
; TITLE OF INVENTION: GENES ABNORMALLY EXPRESSED IN MYELOID LEUKEMIA CELLS WITH AN ML-
; FILE REFERENCE: 27373/37928A
; CURRENT APPLICATION NUMBER: US/10/329,465
; CURRENT FILING DATE: 2002-12-23
; PRIOR APPLICATION NUMBER: US 60/343,826
; PRIOR FILING DATE: 2001-12-27
; NUMBER OF SEQ ID NOS: 315
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 80
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-10-329-465-80

Query Match 45.0%; Score 9; DB 3; Length 10;
Best Local Similarity 100.0%; Pred. No. 34;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2742 AATAAAT 2750
|||||
DB 9 AATAAAT 1

RESULT 5
US-10-033-145-207/c
; Sequence 207, Application US/10033145
; GENERAL INFORMATION:
; APPLICANT: GENZYME CORPORATION
; APPLICANT: ROBERTS, BRUCE
; APPLICANT: SHANKARA, SRINIVAS
; TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
; FILE REFERENCE: GA0201C
; CURRENT APPLICATION NUMBER: US/10/033,145
; CURRENT FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: PCT/US99/13800
; PRIOR FILING DATE: 1999-06-18
; NUMBER OF SEQ ID NOS: 2137
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 207
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-033-145-207

Query Match 45.0%; Score 9; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 34;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2743 AATAAATTC 2751
|||||
DB 9 AATAAATTC 1

RESULT 6
US-10-329-465-284/c
; Sequence 284, Application US/10329465
; GENERAL INFORMATION:
; APPLICANT: Wang et al.
; TITLE OF INVENTION: GENES ABNORMALLY EXPRESSED IN MYELOID LEUKEMIA CELLS WITH AN M
; FILE REFERENCE: 27373/37928A
; CURRENT APPLICATION NUMBER: US/10/329,465
; CURRENT FILING DATE: 2002-12-23
; PRIOR APPLICATION NUMBER: US 60/343,826
; PRIOR FILING DATE: 2001-12-27
; NUMBER OF SEQ ID NOS: 315
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 284
; LENGTH: 38
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-10-329-465-284

Query Match 45.0%; Score 9; DB 3; Length 38;
Best Local Similarity 70.6%; Pred. No. 47;
Matches 12; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

OY 2740 TCAATAAATCTTTC 2756
|||||
DB 28 TCAATAAATCTTATTC 12

RESULT 7
US-10-329-465-263
; Sequence 263, Application US/10329465
; GENERAL INFORMATION:
; APPLICANT: Wang et al.
; TITLE OF INVENTION: GENES ABNORMALLY EXPRESSED IN MYELOID LEUKEMIA CELLS WITH AN M
; FILE REFERENCE: 27373/37928A
; CURRENT APPLICATION NUMBER: US/10/329,465
; CURRENT FILING DATE: 2002-12-23

;; PRIOR APPLICATION NUMBER: US 60/343,826
;; PRIOR FILING DATE: 2001-12-27
;; NUMBER OF SEQ ID NOS: 315
;; SOFTWARE: PatentIn version 3.1
;; SEQ ID NO 263
;; LENGTH: 46
;; TYPE: DNA
;; ORGANISM: Artificial sequence
;; FEATURE:
;; OTHER INFORMATION: Synthetic oligonucleotide
US-10-329-465-263

Query Match 43.0%; Score 8.6; DB 3; Length 46;
Best Local Similarity 73.3%; Pred. No. 72;
Matches 11; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 2740 TCATATAAATCTTT 2754
|||||
Db 18 TCAAAACTTTCTTT 32

RESULT 8
US-10-329-465-263/C
; Sequence 263, Application US/10329465
; GENERAL INFORMATION:
; APPLICANT: Wang et al.
; TITLE OF INVENTION: GENES ABNORMALLY EXPRESSED IN MYELOID LEUKEMIA CELLS WITH AN MLL-
; FILE REFERENCE: 27373/37928A
; CURRENT APPLICATION NUMBER: US/10/329,465
; CURRENT FILING DATE: 2002-12-23
; PRIOR APPLICATION NUMBER: US 60/343,826
; PRIOR FILING DATE: 2001-12-27
; NUMBER OF SEQ ID NOS: 315
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 263
; LENGTH: 46
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-10-329-465-263

Query Match 43.0%; Score 8.6; DB 3; Length 46;
Best Local Similarity 73.3%; Pred. No. 72;
Matches 11; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 2739 CTCATATAAATCTT 2753
|||||
Db 34 CTAAAGAAAAGTTT 20

RESULT 9
US-10-033-145-106
; Sequence 106, Application US/10033145
; GENERAL INFORMATION:
; APPLICANT: GENZYME CORPORATION
; APPLICANT: ROBERTS, BRUCE
; APPLICANT: SHANKARA, SRINIVAS
; TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
; FILE REFERENCE: GA0201C
; CURRENT APPLICATION NUMBER: US/10/033,145
; CURRENT FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: PCT/US99/13800
; PRIOR FILING DATE: 1999-06-18
; NUMBER OF SEQ ID NOS: 2137
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 106
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-033-145-106

Query Match 42.0%; Score 8.4; DB 4; Length 10;
Best Local Similarity 90.0%; Pred. No. 60;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2746 AATTCCTTT 2755
|||||
Db 1 ACATCTTTT 10

RESULT 10
US-10-033-145-1634
; Sequence 1634, Application US/10033145
; GENERAL INFORMATION:
; APPLICANT: GENZYME CORPORATION
; APPLICANT: ROBERTS, BRUCE
; APPLICANT: SHANKARA, SRINIVAS
; TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
; FILE REFERENCE: GA0201C
; CURRENT APPLICATION NUMBER: US/10/033,145
; CURRENT FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: PCT/US99/13800
; PRIOR FILING DATE: 1999-06-18
; NUMBER OF SEQ ID NOS: 2137
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1634
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-033-145-1634

Query Match 42.0%; Score 8.4; DB 4; Length 10;
Best Local Similarity 90.0%; Pred. No. 60;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2739 CTCATATAA 2748
|||||
Db 1 CTCAAAAA 10

RESULT 11
US-10-329-465-294
; Sequence 294, Application US/10329465
; GENERAL INFORMATION:
; APPLICANT: Wang et al.
; TITLE OF INVENTION: GENES ABNORMALLY EXPRESSED IN MYELOID LEUKEMIA CELLS WITH AN M
; FILE REFERENCE: 27373/37928A
; CURRENT APPLICATION NUMBER: US/10/329,465
; CURRENT FILING DATE: 2002-12-23
; PRIOR APPLICATION NUMBER: US 60/343,826
; PRIOR FILING DATE: 2001-12-27
; NUMBER OF SEQ ID NOS: 315
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 294
; LENGTH: 44
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-10-329-465-294

Query Match 41.0%; Score 8.2; DB 3; Length 44;
Best Local Similarity 76.9%; Pred. No. 1e+02;
Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2744 TAAATCTTTTC 2756
|||||
Db 6 TTAATGCAATTC 18

RESULT 12
US-10-033-145-137
; Sequence 137, Application US/10033145

```
; GENERAL INFORMATION:
; APPLICANT: GENZYME CORPORATION
; APPLICANT: ROBERTS, BRUCE
; APPLICANT: SHANKARA, SRINIVAS
; TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
; FILE REFERENCE: GA0201C
; CURRENT APPLICATION NUMBER: US/10/033,145
; PRIOR FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: PCT/US99/13800
; NUMBER OF SEQ ID NOS: 2137
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 137
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-033-145-137

Query Match
Best Local Similarity 40.0%; Score 8; DB 4; Length 10;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2740 TCAATATA 2747
DB 1 TCAATATA 8

RESULT 13
US-10-033-145-1047/C
; Sequence 1047, Application US/10033145
; GENERAL INFORMATION:
; APPLICANT: GENZYME CORPORATION
; APPLICANT: ROBERTS, BRUCE
; APPLICANT: SHANKARA, SRINIVAS
; TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
; FILE REFERENCE: GA0201C
; CURRENT APPLICATION NUMBER: US/10/033,145
; PRIOR FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: PCT/US99/13800
; NUMBER OF SEQ ID NOS: 2137
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1047
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-033-145-1047

Query Match
Best Local Similarity 40.0%; Score 8; DB 4; Length 10;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2739 CTCATATA 2746
DB 9 CTCATATA 2
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RESULT 14
US-10-033-145-1063/C
; Sequence 1063, Application US/10033145
; GENERAL INFORMATION:
; APPLICANT: GENZYME CORPORATION
; APPLICANT: ROBERTS, BRUCE
; APPLICANT: SHANKARA, SRINIVAS
; TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
; FILE REFERENCE: GA0201C
; CURRENT APPLICATION NUMBER: US/10/033,145
; PRIOR FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: PCT/US99/13800
; NUMBER OF SEQ ID NOS: 2137
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1063
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; LENGTH: 10
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-033-145-1063

Query Match
Best Local Similarity 40.0%; Score 8; DB 4; Length 10;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2746 AAATCTT 2753
DB 10 AAATCTT 3

RESULT 15
US-10-033-145-1525
; Sequence 1525, Application US/10033145
; GENERAL INFORMATION:
; APPLICANT: GENZYME CORPORATION
; APPLICANT: ROBERTS, BRUCE
; APPLICANT: SHANKARA, SRINIVAS
; TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
; FILE REFERENCE: GA0201C
; CURRENT APPLICATION NUMBER: US/10/033,145
; PRIOR FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: PCT/US99/13800
; NUMBER OF SEQ ID NOS: 2137
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1525
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-033-145-1525

Query Match
Best Local Similarity 40.0%; Score 8; DB 4; Length 10;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2740 TCAATATA 2747
DB 1 TCAATATA 8
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Search completed: September 24, 2003, 11:23:24
Job time : 1 secs

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OM nucleic - nucleic search, using sw model

Run on: September 17, 2003, 14:42:40 ; Search time 0.001 Seconds
(without alignments)
203.160 Million cell updates/sec

Title: us-09-898-556a-3
Perfect score: 20
Sequence: 1 gctcaataaattcttct 20

Scoring table: IDENTITY_NUC
Gapop 10.0, Gapext 0.5

Searched: 405 segs, 5079 residues

Total number of hits satisfying chosen parameters: 810

Minimum DB seq length: 0
Maximum DB seq length: 50

Post-Processing: Minimum Match 0%
Maximum Match 100%
Listing first 405 summaries

Database: 80plusrngr.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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6	12	60.0	12	1	abz47890	TOIG of: abz4789
7	12	60.0	12	1	abz47891	TOIG of: abz4789
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176	10.4	52.0	12	1	abhb160014	TOIG of: abhb160	249	10.4	52.0	13	1	abff27282	TOIG of: abff272
177	10.4	52.0	12	1	abhb160603	TOIG of: abhb160	250	10.4	52.0	13	1	abff27283	TOIG of: abff272
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179	10.4	52.0	12	1	abhb164707	TOIG of: abhb164	252	10.4	52.0	13	1	abff28275	TOIG of: abff282

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254	10.4	52.0	13	1	abf36502	TOIG of: abf3650	327	10.4	52.0	13	1	abh62061	TOIG of: abh6206
C 255	10.4	52.0	13	1	abf36503	TOIG of: abf3650	C 328	10.4	52.0	13	1	abh66772	TOIG of: abh6677
C 256	10.4	52.0	13	1	abf37534	TOIG of: abf3753	C 329	10.4	52.0	13	1	abh66773	TOIG of: abh6677
257	10.4	52.0	13	1	abf37535	TOIG of: abf3753	C 330	10.4	52.0	13	1	abh67092	TOIG of: abh6709
C 258	10.4	52.0	13	1	abf40388	TOIG of: abf4038	331	10.4	52.0	13	1	abh67093	TOIG of: abh6709
C 259	10.4	52.0	13	1	abf40389	TOIG of: abf4038	332	10	50.0	10	1	aaef35421	TOIG of: aaef3542
C 260	10.4	52.0	13	1	abf43612	TOIG of: abf4361	C 333	10	50.0	10	1	aaef35733	TOIG of: aaef3573
C 261	10.4	52.0	13	1	abf43613	TOIG of: abf4361	C 334	10	50.0	10	1	aaef36888	TOIG of: aaef3688
C 262	10.4	52.0	13	1	abf44456	TOIG of: abf4445	C 335	10	50.0	10	1	aaef40514	TOIG of: aaef4051
C 263	10.4	52.0	13	1	abf44457	TOIG of: abf4445	336	10	50.0	10	1	aaef40514	TOIG of: aaef4051
C 264	10.4	52.0	13	1	abf453074	TOIG of: abf45307	337	10	50.0	10	1	aaef40514	TOIG of: aaef4051
C 265	10.4	52.0	13	1	abf53075	TOIG of: abf5307	338	10	50.0	10	1	aaef40514	TOIG of: aaef4051
C 266	10.4	52.0	13	1	abf62044	TOIG of: abf6204	339	10	50.0	11	1	abv62284	TOIG of: abv62284
C 267	10.4	52.0	13	1	abf62045	TOIG of: abf6204	C 340	10	50.0	12	1	abh68437	TOIG of: abh68437
C 268	10.4	52.0	13	1	abf68732	TOIG of: abf6873	C 341	10	50.0	12	1	abh68832	TOIG of: abh68832
C 269	10.4	52.0	13	1	abf68733	TOIG of: abf6873	342	10	50.0	12	1	abh69536	TOIG of: abh69536
C 270	10.4	52.0	13	1	abf72074	TOIG of: abf7207	C 343	10	50.0	12	1	abh70144	TOIG of: abh70144
C 271	10.4	52.0	13	1	abf72075	TOIG of: abf7207	344	10	50.0	12	1	abh70864	TOIG of: abh70864
C 272	10.4	52.0	13	1	abf73598	TOIG of: abf7359	C 345	10	50.0	12	1	abh72223	TOIG of: abh72223
C 273	10.4	52.0	13	1	abf73599	TOIG of: abf7359	C 346	10	50.0	12	1	abh74541	TOIG of: abh74541
C 274	10.4	52.0	13	1	abf76506	TOIG of: abf7650	C 347	10	50.0	12	1	abh75754	TOIG of: abh75754
C 275	10.4	52.0	13	1	abf76507	TOIG of: abf7650	C 348	10	50.0	12	1	abh79804	TOIG of: abh79804
C 276	10.4	52.0	13	1	abf81158	TOIG of: abf8115	C 349	10	50.0	12	1	abh81738	TOIG of: abh81738
C 277	10.4	52.0	13	1	abf81159	TOIG of: abf8115	C 350	10	50.0	12	1	abh82009	TOIG of: abh82009
C 278	10.4	52.0	13	1	abf85172	TOIG of: abf8517	C 351	10	50.0	12	1	abh82564	TOIG of: abh82564
C 279	10.4	52.0	13	1	abf85173	TOIG of: abf8517	C 352	10	50.0	12	1	abh83730	TOIG of: abh83730
C 280	10.4	52.0	13	1	abf89598	TOIG of: abf8959	C 353	10	50.0	12	1	abh84258	TOIG of: abh84258
C 281	10.4	52.0	13	1	abf89599	TOIG of: abf8959	C 354	10	50.0	12	1	abh84259	TOIG of: abh84259
C 282	10.4	52.0	13	1	abf93180	TOIG of: abf9318	C 355	10	50.0	12	1	abh84260	TOIG of: abh84260
C 283	10.4	52.0	13	1	abf93181	TOIG of: abf9318	C 356	10	50.0	12	1	abh89678	TOIG of: abh89678
C 284	10.4	52.0	13	1	abf99486	TOIG of: abf9948	C 357	10	50.0	12	1	abh92038	TOIG of: abh92038
C 285	10.4	52.0	13	1	abf99487	TOIG of: abf9948	C 358	10	50.0	12	1	abh92050	TOIG of: abh92050
C 286	10.4	52.0	13	1	abf99488	TOIG of: abf9948	C 359	10	50.0	12	1	abh93032	TOIG of: abh93032
C 287	10.4	52.0	13	1	abf99489	TOIG of: abf9948	C 360	10	50.0	12	1	abh94141	TOIG of: abh94141
C 288	10.4	52.0	13	1	abf99490	TOIG of: abf9948	C 361	10	50.0	12	1	abh99102	TOIG of: abh99102
C 289	10.4	52.0	13	1	abf99491	TOIG of: abf9948	C 362	10	50.0	12	1	abh102555	TOIG of: abh102555
C 290	10.4	52.0	13	1	abf99492	TOIG of: abf9948	C 363	10	50.0	12	1	abh103540	TOIG of: abh103540
C 291	10.4	52.0	13	1	abf99493	TOIG of: abf9948	C 364	10	50.0	12	1	abh106132	TOIG of: abh106132
C 292	10.4	52.0	13	1	abf99494	TOIG of: abf9948	C 365	10	50.0	12	1	abh106225	TOIG of: abh106225
C 293	10.4	52.0	13	1	abf99495	TOIG of: abf9948	C 366	10	50.0	12	1	abh108337	TOIG of: abh108337
C 294	10.4	52.0	13	1	abf99496	TOIG of: abf9948	C 367	10	50.0	12	1	abh11210	TOIG of: abh11210
C 295	10.4	52.0	13	1	abf99497	TOIG of: abf9948	C 368	10	50.0	12	1	abh112839	TOIG of: abh112839
C 296	10.4	52.0	13	1	abf99498	TOIG of: abf9948	C 369	10	50.0	12	1	abh116006	TOIG of: abh116006
C 297	10.4	52.0	13	1	abf99499	TOIG of: abf9948	C 370	10	50.0	12	1	abh120807	TOIG of: abh120807
C 298	10.4	52.0	13	1	abf99500	TOIG of: abf9948	C 371	10	50.0	12	1	abh120916	TOIG of: abh120916
C 299	10.4	52.0	13	1	abf99501	TOIG of: abf9948	C 372	10	50.0	12	1	abh121877	TOIG of: abh121877
C 300	10.4	52.0	13	1	abf99502	TOIG of: abf9948	C 373	10	50.0	12	1	abh121903	TOIG of: abh121903
C 301	10.4	52.0	13	1	abf99503	TOIG of: abf9948	C 374	10	50.0	12	1	abh122339	TOIG of: abh122339
C 302	10.4	52.0	13	1	abf99504	TOIG of: abf9948	C 375	10	50.0	12	1	abh122468	TOIG of: abh122468
C 303	10.4	52.0	13	1	abf99505	TOIG of: abf9948	C 376	10	50.0	12	1	abh123067	TOIG of: abh123067
C 304	10.4	52.0	13	1	abf99506	TOIG of: abf9948	C 377	10	50.0	12	1	abh127009	TOIG of: abh127009
C 305	10.4	52.0	13	1	abf99507	TOIG of: abf9948	C 378	10	50.0	12	1	abh136719	TOIG of: abh136719
C 306	10.4	52.0	13	1	abf99508	TOIG of: abf9948	C 379	10	50.0	12	1	abh138338	TOIG of: abh138338
C 307	10.4	52.0	13	1	abf99509	TOIG of: abf9948	C 380	10	50.0	12	1	abh139707	TOIG of: abh139707
C 308	10.4	52.0	13	1	abf99510	TOIG of: abf9948	C 381	10	50.0	12	1	abh139804	TOIG of: abh139804
C 309	10.4	52.0	13	1	abf99511	TOIG of: abf9948	C 382	10	50.0	12	1	abh145065	TOIG of: abh145065
C 310	10.4	52.0	13	1	abf99512	TOIG of: abf9948	C 383	10	50.0	12	1	abh145662	TOIG of: abh145662
C 311	10.4	52.0	13	1	abf99513	TOIG of: abf9948	C 384	10	50.0	12	1	abh148132	TOIG of: abh148132
C 312	10.4	52.0	13	1	abf99514	TOIG of: abf9948	C 385	10	50.0	12	1	abh152402	TOIG of: abh152402
C 313	10.4	52.0	13	1	abf99515	TOIG of: abf9948	C 386	10	50.0	12	1	abh152976	TOIG of: abh152976
C 314	10.4	52.0	13	1	abf99516	TOIG of: abf9948	C 387	10	50.0	12	1	abh156661	TOIG of: abh156661
C 315	10.4	52.0	13	1	abf99517	TOIG of: abf9948	C 388	10	50.0	12	1	abh156930	TOIG of: abh156930
C 316	10.4	52.0	13	1	abf99518	TOIG of: abf9948	C 389	10	50.0	12	1	abh157374	TOIG of: abh157374
C 317	10.4	52.0	13	1	abf99519	TOIG of: abf9948	C 390	10	50.0	12	1	abh158171	TOIG of: abh158171
C 318	10.4	52.0	13	1	abf99520	TOIG of: abf9948	C 391	10	50.0	12	1	abh159718	TOIG of: abh159718
C 319	10.4	52.0	13	1	abf99521	TOIG of: abf9948	C 392	10	50.0	12	1	abh162539	TOIG of: abh162539
C 320	10.4	52.0	13	1	abf99522	TOIG of: abf9948	C 393	10	50.0	12	1	abh162540	TOIG of: abh162540
C 321	10.4	52.0	13	1	abf99523	TOIG of: abf9948	C 394	10	50.0	12	1	abh163588	TOIG of: abh163588
C 322	10.4	52.0	13	1	abf99524	TOIG of: abf9948	C 395	10	50.0	12	1	abh165717	TOIG of: abh165717
C 323	10.4	52.0	13	1	abf99525	TOIG of: abf9948	C 396	10	50.0	12	1	abh165810	TOIG of: abh165810
C 324	10.4	52.0	13	1	abf99526	TOIG of: abf9948	C 397	10	50.0	12	1	abh167120	TOIG of: abh167120
C 325	10.4	52.0	13	1	abf99527	TOIG of: abf9948	C 398	10	50.0	12	1	abh170539	TOIG of: abh170539
												abh172351	TOIG of: abh17235

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399      10  50.0  12  1  ab175344  TOIG of: ab17534
c 400      10  50.0  12  1  ab175314  TOIG of: ab17531
401      10  50.0  12  1  ab178489  TOIG of: ab17848
402      10  50.0  12  1  ab179494  TOIG of: ab17949
c 403      10  50.0  12  1  ab179687  TOIG of: ab17968
c 404      10  50.0  12  1  ab180367  TOIG of: ab18036
c 405      10  50.0  12  1  ab181874  TOIG of: ab18187

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ALIGNMENTS

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RESULT 1
abz71053/c
TOIG of: abz71053 check: 5423 from: 1 to: 20
ID  ABZ71053 standard; DNA: 20 BP.
AC  ABZ71053;
XX  28-APR-2003 (first entry)
DE  Human HKR1 phosphorothioate antisense oligonucleotide SEQ ID NO:81.
XX  Human; HKR1, cytosolic; HKR1 inhibitor; hyperproliferative disorder;
KM  cancer; antisense oligonucleotide; 2'-O-methoxyethyl; 2'-MOE; control;
XX  phosphorothioate; ss.
XX  Homo sapiens.
XX  OS
XX  Key  Location/Qualifiers
FT  modified_base 1..28 /*tag- a
FT  /*tag- a
FT  /mod_base= OTHER
FT  modified_base 1..5 /*tag- b
FT  /*tag- b
FT  /mod_base= OTHER
FT  modified_base 16..20 /*tag- c
FT  /*tag- c
FT  /mod_base= OTHER
FT  modified_base /note="2'-O-methoxyethyl (2'-MOE) nucleotides"
FT  /*tag- c
FT  /note="2'-O-methoxyethyl (2'-MOE) nucleotides"
XX  WO2003004513-A1.
XX  16-JAN-2003.
XX  02-JUL-2002; 2002MO-US21090.
XX  03-JUL-2001; 2001US-0898556.
XX  (ISIS-) ISIS PHARM INC.
XX  PI Bennett FC, Freiler SM;
XX  DR WPI; 2003-210336/20.
XX  PT New compounds, particularly antisense oligonucleotides targeted to a
XX  nucleic acid encoding HKR1, useful for treating a disease/condition
XX  associated with HKR1, such as hyperproliferative disorder, e.g. lung,
XX  brain or breast cancer -
XX  Claim 3; Page 73; 105pp; English.
XX  PS
XX  CC The present invention describes a compound 8-50 nucleobases in length
XX  targeted to, and which specifically hybridizes with a nucleic acid
XX  molecule encoding HKR1, and inhibits the expression of HKR1. Also
XX  described: (1) a compound 8-50 nucleobases in length that specifically
XX  hybridizes with at least an 8-nucleobase portion of an active site on a
XX  nucleic acid molecule encoding HKR1; (2) a composition comprising the
XX  compound and a carrier or diluent; (3) a method for inhibiting the
XX  expression of HKR1 in cells or tissues by contacting the cells or tissues

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; CC with the compound so that expression of HKR1 is inhibited; and (4) a
; CC method of treating an animal having a disease or condition associated
; CC with HKR1 by administering to the animal a therapeutic or prophylactic
; CC amount of the compound so that expression of HKR1 is inhibited. HKR1
; CC antisense oligonucleotides have cytostatic activities and can be used as
; CC HKR1 inhibitors. The compound, composition and methods are useful for
; CC treating a disease or condition associated with HKR1, such as a
; CC hyperproliferative disorder, e.g. lung, brain or breast cancer, by
; CC inhibiting the expression of HKR1. They are also useful in research and
; CC diagnostics for modulating the expression of HKR1. The present sequence
; CC represents a human HKR1 chimeric phosphorothioate oligonucleotide having
; CC 2'-O-methoxyethyl (2'-MOE) wings and a deoxy gap, which is an antisense
; CC oligonucleotide used in the inhibition of human HKR1 in an example from
; CC the present invention.
; SQ Sequence 20 BP; 9 A; 1 C; 4 G; 6 T; 0 other;
; ABZ71053 Length: 20 September 17, 2003 14:26 Type: N Check: 5423 ..
abz71053
Query Match 100.0%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2738 GCTCAATTAATTCCTTCT 2757
DB 20 GCTCAATTAATTCCTTCT 1
RESULT 2
abz74378
TOIG of: abz74378 check: 5907 from: 1 to: 12
ID  ABZ74378 standard; DNA: 12 BP.
AC  ABZ74378;
XX  22-FEB-2002 (first entry)
DE  Oligonucleotide primer SEQ ID NO 274363 for detecting SNP TSC003524.
XX  SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM  peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX  central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX  Homo sapiens.
XX  OS
XX  PN WO200177384-A2.
XX  PD 18-OCT-2001.
XX  PE 06-APR-2001; 2001MO-IB00713.
XX  PR 07-APR-2000; 2000DB-1019173.
XX  PA (EPIC-) EPIDEMIOLOGICS AG.
XX  PI Olek A, Piepenbrock C, Berlin K;
XX  DR WPI; 2001-657177/5.
XX  PT Set of oligonucleotides, useful for diagnosis and cell typing, is
XX  designed to detect single nucleotide polymorphisms and cytosine
XX  methylation status -
XX  Claim 1; SEQ ID 274363; 29pp + Sequence Listing; German.
XX  PS
XX  CC This invention describes novel oligonucleotide primers or peptide nucleic
XX  acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX  and cytosine methylation status in chemically pretreated genomic DNA. The
XX  oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX  range of diseases including immune system, gastrointestinal, respiratory,
XX  central nervous system, cardiovascular and metabolic disorders. The

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CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABH00010-ABH99989 and
CC ABH00010-ABH82073 represent the oligomers described in the invention.
NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
CC
CC
CC Sequence 12 BP; 6 A; 1 C; 0 G; 5 T; 0 other;
ABH74378 Length: 12 September 17, 2003 14:26 Type: N Check: 5907
abH74378

Query Match 60.0%; Score 12; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 50;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2742 AATAAATTCCTT 2753
Db 1 AATAAATTCCTT 12

RESULT 3
abH82384/C
TOIG of: abH82384 check: 6095 from: 1 to: 12

ID ABH82384 standard; DNA; 12 BP.
XX
AC ABH82384;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide primer SEQ ID NO 282377 for detecting SNP TSC0010709.
XX
SNP: single nucleotide polymorphism; human; diagnosis: PNA; cancer: CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PE 06-APR-2001; 2001WO-1B00713.
XX
PR 07-APR-2000; 2000DE-1019173.
XX
PA (EPIC-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
DR WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
PS
PS Claim 1; SEQ ID 282377; 29pp + Sequence listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABH00010-ABH99989 and
CC ABH00010-ABH82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 12 BP; 5 A; 0 C; 1 G; 6 T; 0 other;

ABH82384 Length: 12 September 17, 2003 14:26 Type: N Check: 6095
abH82384

Query Match 60.0%; Score 12; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 50;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2742 AATAAATTCCTT 2753
Db 12 AATAAATTCCTT 1

RESULT 4
abH95378
TOIG of: abH95378 check: 6150 from: 1 to: 12

ID ABH95378 standard; DNA; 12 BP.
XX
AC ABH95378;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide primer SEQ ID NO 295371 for detecting SNP TSC0016558.
XX
SNP: single nucleotide polymorphism; human; diagnosis: PNA; cancer: CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PE 06-APR-2001; 2001WO-1B00713.
XX
PR 07-APR-2000; 2000DE-1019173.
XX
PA (EPIC-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
DR WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
PS
PS Claim 1; SEQ ID 295371; 29pp + Sequence listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABH00010-ABH99989 and
CC ABH00010-ABH82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 12 BP; 4 A; 1 C; 0 G; 7 T; 0 other;
ABH95378 Length: 12 September 17, 2003 14:26 Type: N Check: 6150
abH95378

Query Match 60.0%; Score 12; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 50;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2744 TAAATTCCTTT 2755
|||||
Db 1 TAAATTCCTTT 12

RESULT 5

ab152090/c

TOIG of: ab152090 check: 5751 from: 1 to: 12

ID AB152090 standard; DNA; 12 BP.

AC AB152090;

DT 22-FEB-2002 (first entry)

Oligonucleotide primer SEQ ID NO 352063 for detecting SNP TSC0007262.

SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX Homo sapiens.

PN MO0017384-A2.

PD 18-OCT-2001.

PF 06-APR-2001; 2001WO-1B00713.

PR 07-APR-2000; 2000DE-1019173.

PA (EPIC-) EPIGENOMICS AG.

PI Olek A, Piepenbrock C, Berlin K;

PS WPI; 2001-657177/75.

PT Set of oligonucleotides useful for diagnosis and cell typing, is

PT designed to detect single nucleotide polymorphisms and cytosine

PT methylation status

PS Claim 1; SEQ ID 352063; 29pp + Sequence Listing; German.

CC This invention describes novel oligonucleotide primers or peptide nucleic

CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)

CC and cytosine methylation status in chemically pretreated genomic DNA. The

CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a

CC range of diseases including immune system, gastrointestinal, respiratory,

CC central nervous system, cardiovascular and metabolic disorders. The

CC oligomers are also used for detecting cell type differentiation.

CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and

CC AB100010-AB182073 represent the oligomers described in the invention.

CC NOTE: The sequence data for this patent did not form part of the printed

CC specification, but was obtained in electronic format from WIPO at

CC ftp.wipo.int/pub/published_pct_sequences.

XX SQ Sequence 12 BP; 7 A; 0 C; 2 G; 3 T; 0 other;

AB152090 Length: 12 September 17, 2003 14:26 Type: N Check: 5751 ..

Query Match

Best Local Similarity 60.0%; Score 12; DB 1; Length 12;

Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2746 AATTCCTTCT 2757

Db 12 AATTCCTTCT 1

RESULT 6

ab47890/c

TOIG of: ab47890 check: 6813 from: 1 to: 13

ID AB47890 standard; DNA; 13 BP.

AC AB47890;

DT 22-FEB-2002 (first entry)

Oligonucleotide SEQ ID NO 247867 for detecting SNP TSC0060578.

SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX Homo sapiens.

PN MO0017384-A2.

PD 18-OCT-2001.

PF 06-APR-2001; 2001WO-1B00713.

PR 07-APR-2000; 2000DE-1019173.

PA (EPIC-) EPIGENOMICS AG.

PI Olek A, Piepenbrock C, Berlin K;

PS WPI; 2001-657177/75.

PT Set of oligonucleotides useful for diagnosis and cell typing, is

PT designed to detect single nucleotide polymorphisms and cytosine

PT methylation status

PS Claim 1; SEQ ID 247867; 29pp + Sequence Listing; German.

CC This invention describes novel oligonucleotide primers or peptide nucleic

CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)

CC and cytosine methylation status in chemically pretreated genomic DNA. The

CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a

CC range of diseases including immune system, gastrointestinal, respiratory,

CC central nervous system, cardiovascular and metabolic disorders. The

CC oligomers are also used for detecting cell type differentiation.

CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and

CC AB100010-AB182073 represent the oligomers described in the invention.

CC NOTE: The sequence data for this patent did not form part of the printed

CC specification, but was obtained in electronic format from WIPO at

CC ftp.wipo.int/pub/published_pct_sequences.

XX SQ Sequence 13 BP; 7 A; 0 C; 1 G; 5 T; 0 other;

AB47890 Length: 13 September 17, 2003 14:26 Type: N Check: 6813 ..

Query Match

Best Local Similarity 60.0%; Score 12; DB 1; Length 13;

Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2743 ATAAATTCCTT 2754

Db 12 ATAAATTCCTT 1

TOIG of: ab47891 check: 7018 from: 1 to: 13

ID AB47891 standard; DNA; 13 BP.

AC AB47891;

DT 22-FEB-2002 (first entry)

Oligonucleotide SEQ ID NO 247868 for detecting SNP TSC0060578.

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; XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; XX WO200177384-A2.
; XX 18-OCT-2001.
; XX PD 06-APR-2001; 2001WO-IB00713.
; XX PR 07-APR-2000; 2000DE-1019173.
; XX PA (EPIG-) EPIGENOMICS AG.
; XX PI Olek A, Piepenbrock C, Berlin K;
; XX WPI; 2001-657177/75.
; XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX PS Claim 1; SEQ ID 247868; 29pp + Sequence Listing; German.
; XX CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC CC
; SQ Sequence 13 BP; 5 A; 1 C; 0 G; 7 T; 0 other;
; ABH47891 Length: 13 September 17, 2003 14:26 Type: N Check: 7018 ..
; abh47891

Query Match 60.0%; Score 12; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 54;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2743 ATTAATCTCTT 2754
Db 2 ATTAATCTCTT 13

RESULT 8
abf56854/c
; TOIG of: abf56854 check: 6927 from: 1 to: 13
; ID ABF56854 standard; DNA; 13 BP.
; AC ABF56854;
; XX 21-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 156851 for detecting SNP TSC0039548.
; XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX Homo sapiens.
; XX OS
; XX WO200177384-A2.
; PN

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; XX 18-OCT-2001.
; XX PD 06-APR-2001; 2001WO-IB00713.
; XX PR 07-APR-2000; 2000DE-1019173.
; XX PA (EPIG-) EPIGENOMICS AG.
; XX PI Olek A, Piepenbrock C, Berlin K;
; XX WPI; 2001-657177/75.
; XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX PS Claim 1; SEQ ID 156851; 29pp + Sequence Listing; German.
; XX CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC CC
; SQ Sequence 13 BP; 6 A; 0 C; 2 G; 4 T; 1 other;
; abf56854 Length: 13 September 17, 2003 14:26 Type: N Check: 6927 ..
; abf56854

Query Match 58.0%; Score 11.6; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 66;
Matches 11; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2745 AAAATCTCTTC 2756
Db 13 AAAATCTCTTC 2

RESULT 9
abf56855
; TOIG of: abf56855 check: 6901 from: 1 to: 13
; ID ABF56855 standard; DNA; 13 BP.
; AC ABF56855;
; XX 21-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 156852 for detecting SNP TSC0039548.
; XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX Homo sapiens.
; XX OS
; XX WO200177384-A2.
; XX PD 18-OCT-2001.
; XX PR 06-APR-2001; 2001WO-IB00713.
; XX PA (EPIG-) EPIGENOMICS AG.
; XX PI

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; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 156852; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-AB099989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 4 A; 2 C; 0 G; 6 T; 1 other;
;
; ABF56855 Length: 13 September 17, 2003 14:26 Type: N Check: 6901 ..
; abf56855

Query Match          58.0%; Score 11.6; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 66;
Matches 11; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      2745 AAAATCTCTTTC 2756
Db      1 RAAATCTCTTTC 12
      :|||||
      :|||||

RESULT 10
abc01120/c
; TOIG of: abc01120 check: 6884 from: 1 to: 13
;
; ID ABC01120 standard; DNA; 13 BP.
; XX
; AC ABC01120:
; XX
; DT 20-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 1111 for detecting SNP TSC0000375.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; PT

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; XX
; PS Claim 1; SEQ ID 1111; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-AB099989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 8 A; 0 C; 0 G; 5 T; 0 other;
;
; ABC01120 Length: 13 September 17, 2003 14:26 Type: N Check: 6884 ..
; abc01120

Query Match          57.0%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 74;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2743 ATAAATCTCTT 2755
Db      13 ATAAATCTCTT 1
      :|||||
      :|||||

RESULT 11
abc01121
; TOIG of: abc01121 check: 7283 from: 1 to: 13
;
; ID ABC01121 standard; DNA; 13 BP.
; XX
; AC ABC01121:
; XX
; DT 20-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 1112 for detecting SNP TSC0000375.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; PT
; PS Claim 1; SEQ ID 1112; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,

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CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC AB100010-AB182073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
CC
CC SQ Sequence 13 BP; 5 A; 0 C; 0 G; 8 T; 0 other;
; ABC01121 Length: 13 September 17, 2003 14:26 Type: N Check: 7283
; abc01121

Query Match
Best Local Similarity 57.0%; Score 11.4; DB 1; Length 13;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2743 ATAAATCTTTT 2755
Db 1 ATAAATCTTTT 13

RESULT 12
abc15488/C
; TOIG OF: abc15488 check: 7142 from: 1 to: 13
; ID ABC15488 standard; DNA; 13 BP.
; AC ABC15488
; XX
; DT 20-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 15495 for detecting SNP TSC0003434.
; XX
; KW SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPICENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 15495; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
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```
; SQ Sequence 13 BP; 6 A; 0 C; 1 G; 6 T; 0 other;
; ABC15488 Length: 13 September 17, 2003 14:26 Type: N Check: 7142
; abc15488

Query Match
Best Local Similarity 57.0%; Score 11.4; DB 1; Length 13;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2743 ATAAATCTTTT 2755
Db 13 ATAAATCTTTT 1

RESULT 13
abc15489
; TOIG OF: abc15489 check: 7092 from: 1 to: 13
; ID ABC15489 standard; DNA; 13 BP.
; AC ABC15489;
; XX
; DT 20-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 15496 for detecting SNP TSC0003434.
; XX
; KW SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPICENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 15496; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 6 A; 1 C; 0 G; 6 T; 0 other;
; ABC15489 Length: 13 September 17, 2003 14:26 Type: N Check: 7092
; abc15489

Query Match
Best Local Similarity 57.0%; Score 11.4; DB 1; Length 13;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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OY      2743 ATAAATCTTTT 2755
DB      1 AAAAAATCTTTT 13

RESULT 14
abc58642/c
TOIG OF: abc58642 check: 6812 from: 1 to: 13
; ID ABC58642 standard; DNA; 13 BP.
; AC ABC58642;
; XX
; DT 21-FEB-2002 (first entry)
; PS Oligonucleotide SEQ ID NO 58659 for detecting SNP TSC0015719.
; DE
; SNR SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-1B00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPiG-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS MPI; 2001-657177/75.
; DR
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 58659; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABI00010-ABI82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 6 A; 0 C; 2 G; 5 T; 0 other;
; ABC58642 Length: 13 September 17, 2003 14:26 Type: N Check: 6812 ..
abc58642

Query Match      57.0%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 74;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY      2744 TAAATCTTTT 2756
DB      13 TAAATCTTTATC 1

RESULT 15
abc58643
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```
TOIG OF: abc58643 check: 6812 from: 1 to: 13
; ID ABC58643 standard; DNA; 13 BP.
; AC ABC58643;
; XX
; DT 21-FEB-2002 (first entry)
; PS Oligonucleotide SEQ ID NO 58660 for detecting SNP TSC0015719.
; DE
; SNR SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-1B00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPiG-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS MPI; 2001-657177/75.
; DR
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 58660; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABI00010-ABI82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 5 A; 2 C; 0 G; 6 T; 0 other;
; ABC58643 Length: 13 September 17, 2003 14:26 Type: N Check: 6812 ..
abc58643

Query Match      57.0%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 74;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY      2744 TAAATCTTTT 2756
DB      1 TAAATCTTTATC 13

RESULT 16
abc63706/c
TOIG OF: abc63706 check: 7048 from: 1 to: 13
; ID ABC63706 standard; DNA; 13 BP.
; AC ABC63706;
; XX
; DT 21-FEB-2002 (first entry)
; XX
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DE Oligonucleotide SEQ ID NO 63723 for detecting SNP TSC0016827.
XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX Homo sapiens.
XX WO200177384-A2.
XX PD 18-OCT-2001.
XX PE 06-APR-2001; 2001WO-IB00713.
XX PR 07-APR-2000; 2000DE-1019173.
XX PA (EPIG-) EPIGENOMICS AG.
XX PI Olek A, Piepenbrock C, Berlin K;
XX WIPI; 2001-657177/75.
XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status.
XX PS Claim 1; SEQ ID 63723; 29pp + Sequence Listing; German.
XX CC This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX CC AB000010-AB099989, ABP00010-ABP99989, ABH00010-ABH99989 and
XX ABH00010-ABH2073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX SQ Sequence 13 BP; 5 A; 0 C; 1 G; 7 T; 0 other;
XX ABC63706 Length: 13 September 17, 2003 14:26 Type: N Check: 7048 ..
abc63706
Query Match 57.0%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 74;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 2740 TCAATTAATAATCT 2752
Db 13 TAAATTAATAATCT 1
RESULT 17
abc63707
TOIG of: abc63707 check: 6699 from: 1 to: 13
XX ID ABC63707 standard; DNA; 13 BP.
XX AC ABC63707;
XX XX
XX 21-FEB-2002 (first entry)
XX DE Oligonucleotide SEQ ID NO 63724 for detecting SNP TSC0016827.
XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX OS Homo sapiens.
XX XX

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XX PN WO200177384-A2.
XX PD 18-OCT-2001.
XX PE 06-APR-2001; 2001WO-IB00713.
XX PR 07-APR-2000; 2000DE-1019173.
XX PA (EPIG-) EPIGENOMICS AG.
XX PI Olek A, Piepenbrock C, Berlin K;
XX WIPI; 2001-657177/75.
XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status.
XX PS Claim 1; SEQ ID 63724; 29pp + Sequence Listing; German.
XX CC This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX CC AB000010-AB099989, ABP00010-ABP99989, ABH00010-ABH99989 and
XX ABH00010-ABH2073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX SQ Sequence 13 BP; 7 A; 1 C; 0 G; 5 T; 0 other;
XX ABC63707 Length: 13 September 17, 2003 14:26 Type: N Check: 6699 ..
abc63707
Query Match 57.0%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 74;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 2740 TCAATTAATAATCT 2752
Db 1 TAAATTAATAATCT 13
RESULT 18
abf54670/c
TOIG of: abf54670 check: 6861 from: 1 to: 13
XX ID ABF54670 standard; DNA; 13 BP.
XX AC ABF54670;
XX XX
XX 21-FEB-2002 (first entry)
XX DE Oligonucleotide SEQ ID NO 15467 for detecting SNP TSC0009835.
XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX OS Homo sapiens.
XX PN WO200177384-A2.
XX PD 18-OCT-2001.
XX PE 06-APR-2001; 2001WO-IB00713.
XX PR 07-APR-2000; 2000DE-1019173.
XX XX

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; PA (EPiG-) EPIGENOMICS AG.
; XX Olek A, Piepenbrock C, Berlin K;
; PT WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 154667; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABH00010-ABH99989 and
; CC ABH00010-ABH82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 6 A; 0 C; 3 G; 4 T; 0 other;
; ABF54670 Length: 13 September 17, 2008 14:26 Type: N Check: 6861 ..
; abf54670

Query Match 57.0%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 74;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2745 AAAATTCCTTCT 2757
Db 13 AAAATTCCTTCT 1

RESULT 19
abf54671
; TOIG of: abf54671 check: 6944 from: 1 to: 13
; ID ABF54671 standard; DNA; 13 BP.
; XX
; AC ABF54671;
; XX
; DT 21-FEB-2002 (first entry)
; XX
; DE Oligonucleotide seq ID NO 154668 for detecting SNP TSC0009835.
; XX
; OS SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001MO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPiG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine

```

```

; PT methylation status -
; XX
; PS Claim 1; SEQ ID 154668; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABH00010-ABH99989 and
; CC ABH00010-ABH82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 4 A; 3 C; 0 G; 6 T; 0 other;
; ABF54671 Length: 13 September 17, 2003 14:26 Type: N Check: 6944 ..
; abf54671

Query Match 57.0%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 74;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2745 AAAATTCCTTCT 2757
Db 1 AAAATTCCTTCT 13

RESULT 20
abf79610
; TOIG of: abf79610 check: 7169 from: 1 to: 13
; ID ABF79610 standard; DNA; 13 BP.
; XX
; AC ABF79610;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide seq ID NO 179607 for detecting SNP TSC0005202.
; XX
; OS SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001MO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPiG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 179607; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a

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; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SQ Sequence 13 BP: 6 A; 0 C; 0 G; 7 T; 0 other;
; ABF79610 Length: 13 September 17, 2003 14:26 Type: N Check: 7169 ..
; abf79610

Query Match      57.0%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 74;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2742 AATFAAATTCCTT 2754
Db 1 AATFAAATTCCTT 13

RESULT 21
abf79611/c
; TOIG Of: abf79611 check: 7036 from: 1 to: 13
; ID ABF79611 standard; DNA; 13 BP.
; AC ABF79611;
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 179608 for detecting SNP TSC0005202.
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PE 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; XX
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; XX and cytosine methylation status in chemically pretreated genomic DNA. The
; XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; XX range of diseases including immune system, gastrointestinal, respiratory,
; XX central nervous system, cardiovascular and metabolic disorders. The
; XX oligomers are also used for detecting cell type differentiation.
; XX CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; XX CC AB100010-AB182073 represent the oligomers described in the invention.
; XX NOTE: The sequence data for this patent did not form part of the printed
; XX specification, but was obtained in electronic format from WIPO at
; XX ftp.wipo.int/pub/published_pct_sequences.
; CC

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; XX
; SQ Sequence 13 BP; 7 A; 0 C; 0 G; 6 T; 0 other;
; ABF79611 Length: 13 September 17, 2003 14:26 Type: N Check: 7036 ..
; abf79611

Query Match      57.0%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 74;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2742 AATFAAATTCCTT 2754
Db 13 AATFAAATTCCTT 1

RESULT 22
abh15098/c
; TOIG Of: abh15098 check: 7208 from: 1 to: 13
; ID ABH15098 standard; DNA; 13 BP.
; AC ABH15098;
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 215075 for detecting SNP TSC0007391.
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PE 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; XX
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; XX and cytosine methylation status in chemically pretreated genomic DNA. The
; XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; XX range of diseases including immune system, gastrointestinal, respiratory,
; XX central nervous system, cardiovascular and metabolic disorders. The
; XX oligomers are also used for detecting cell type differentiation.
; XX CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; XX CC AB100010-AB182073 represent the oligomers described in the invention.
; XX NOTE: The sequence data for this patent did not form part of the printed
; XX specification, but was obtained in electronic format from WIPO at
; XX ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 4 A; 0 C; 2 G; 7 T; 0 other;
; ABH15098 Length: 13 September 17, 2003 14:26 Type: N Check: 7208 ..
; abh15098

Query Match      57.0%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 74;

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Matches 12: Conservative 0: Mismatches 1: Indels 0: Gaps 0:
 QY 2741 CAATAAATCTT 2753
 ||| |||||
 Db 13 CAAAAAATCTT 1

RESULT 23

abhl5099
 : TOIG of: abhl5099 check: 6775 from: 1 to: 13

ABH15099 standard; DNA: 13 BP.
 AC ABH15099;
 XX
 XX 22-FEB-2002 (first entry)
 DE Oligonucleotide SEQ ID NO 215076 for detecting SNP TSC0007391.
 XX
 XX
 KM SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX
 OS Homo sapiens.
 XX
 PN WO200177384-A2.
 PD 18-OCT-2001.
 XX
 PF 06-APR-2001; 2001WO-IB00713.
 XX
 PR 07-APR-2000; 2000DE-1019173.
 XX
 PA (EPiG-) EPIGENOMICS AG.
 PI Olek A, Piepenbrock C, Berlin K;
 DR WPI; 2001-657177/75.
 XX
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single nucleotide polymorphisms and cytosine
 PT methylation status -
 XX
 PS Claim 1; SEQ ID 215076; 29pp + Sequence Listing; German.

CC This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.
 CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 CC ABI00010-ABI82073 represent the oligomers described in the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.
 CC
 XX Sequence 13 BP; 7 A; 2 C; 0 G; 4 T; 0 other;
 SQ

ABH15099 Length: 13 September 17, 2003 14:26 Type: N Check: 6775 ..
 abhl5099

Query Match 57.0%; Score 11.4; DB 1; Length 13;
 Best Local Similarity 92.3%; Pred. No. 74;
 Matches 12: Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2741 CAATAAATCTT 2753
 ||| |||||
 Db 1 CAAAAAATCTT 13

RESULT 24

abhl37606/c
 : TOIG of: abhl37606 check: 7096 from: 1 to: 13
 ID ABH37606 standard; DNA: 13 BP.
 XX
 AC ABH37606;
 XX
 XX 22-FEB-2002 (first entry)
 DE Oligonucleotide SEQ ID NO 237583 for detecting SNP TSC0057940.
 XX
 XX
 KM SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX
 OS Homo sapiens.
 XX
 PN WO200177384-A2.
 PD 18-OCT-2001.
 XX
 PF 06-APR-2001; 2001WO-IB00713.
 XX
 PR 07-APR-2000; 2000DE-1019173.
 XX
 PA (EPiG-) EPIGENOMICS AG.
 PI Olek A, Piepenbrock C, Berlin K;
 DR WPI; 2001-657177/75.
 XX
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single nucleotide polymorphisms and cytosine
 PT methylation status -
 XX
 PS Claim 1; SEQ ID 237583; 29pp + Sequence Listing; German.

CC This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.
 CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 CC ABI00010-ABI82073 represent the oligomers described in the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.
 CC
 XX Sequence 13 BP; 5 A; 0 C; 2 G; 6 T; 0 other;
 SQ

ABH37606 Length: 13 September 17, 2003 14:26 Type: N Check: 7096 ..
 abhl37606

Query Match 57.0%; Score 11.4; DB 1; Length 13;
 Best Local Similarity 92.3%; Pred. No. 74;
 Matches 12: Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2742 AATAAATCTT 2754
 ||||| |||||
 Db 13 AATAAATCTT 1

abhl37607
 : TOIG of: abhl37607 check: 6863 from: 1 to: 13
 ID ABH37607 standard; DNA: 13 BP.
 XX
 AC ABH37607;
 XX
 XX 22-FEB-2002 (first entry)
 DT

RESULT 25
 abhl37607
 : TOIG of: abhl37607 check: 6863 from: 1 to: 13
 ID ABH37607 standard; DNA: 13 BP.
 XX
 AC ABH37607;
 XX
 XX 22-FEB-2002 (first entry)
 DT


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; XX (EPIC-) EPIDENOMICS AG.
; PA Olek A, Piepenbrock C, Berlin K;
; XX WPI; 2001-657177/75.
; DR Set of oligonucleotides, useful for diagnosis and cell typing, is
; XX designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; PS Claim 1; SEQ ID 24466; 29pp + Sequence listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABR00010-ABR99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; XX Sequence 13 BP; 3 A; 2 C; 0 G; 8 T; 0 other;
; SQ
; ABH41489 Length: 13 September 17, 2003 14:26 Type: N Check: 7097 ..
; abh41489

Query Match 57.0%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 74;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2744 TAAATTCCTTTC 2756
DB 1 TAAATTCCTTTC 13

RESULT 28
abh50390/c
; TOIG of: abh50390 check: 7072 from: 1 to: 13
; ID ABH50390 standard; DNA: 13 BP.
; XX
; AC ABH50390;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 250367 for detecting SNP TSC0061133.
; XX
; KM SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PE 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIDENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is

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```

; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; PS Claim 1; SEQ ID 250367; 29pp + Sequence listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABR00010-ABR99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; XX Sequence 13 BP; 3 A; 0 C; 3 G; 7 T; 0 other;
; SQ
; ABH50390 Length: 13 September 17, 2003 14:26 Type: N Check: 7072 ..
; abh50390

Query Match 57.0%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 74;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2739 CTCATTAATTC 2751
DB 13 CTCATTAATTC 1

RESULT 29
abh50391
; TOIG of: abh50391 check: 6500 from: 1 to: 13
; ID ABH50391 standard; DNA: 13 BP.
; XX
; AC ABH50391;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 250368 for detecting SNP TSC0061133.
; XX
; KM SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PE 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIDENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; PS Claim 1; SEQ ID 250368; 29pp + Sequence listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The

```

```
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; range of diseases including immune system, gastrointestinal, respiratory,
; central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABT00010-ABT82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SQ Sequence 13 BP; 7 A; 3 C; 0 G; 3 T; 0 other;
; ABH50391 Length: 13 September 17, 2003 14:26 Type: N Check: 6500 ..
; abh50391

Query Match
Best Local Similarity 92.3%; Pred. No. 74;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2739 CTCATTAATTC 2751
Db 1 CACAAATAATTC 13

RESULT 30
abh50394/c
; TOIG Of: abh50394 check: 6868 from: 1 to: 13
; ID ABH50394 standard; DNA; 13 BP.
; XX
; AC ABH50394:
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 250371 for detecting SNP TSC0061133.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIG-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI: 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 250371; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABT00010-ABT82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
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; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 3 A; 1 C; 3 G; 6 T; 0 other;
; ABH50394 Length: 13 September 17, 2003 14:26 Type: N Check: 6868 ..
; abh50394

Query Match
Best Local Similarity 92.3%; Pred. No. 74;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2739 CTCATTAATTC 2751
Db 13 CGCAATAATTC 1

RESULT 31
abh50395
; TOIG Of: abh50395 check: 6512 from: 1 to: 13
; ID ABH50395 standard; DNA; 13 BP.
; XX
; AC ABH50395:
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 250372 for detecting SNP TSC0061133.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIG-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI: 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 250372; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABT00010-ABT82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SQ Sequence 13 BP; 6 A; 3 C; 1 G; 3 T; 0 other;
; ABH50395 Length: 13 September 17, 2003 14:26 Type: N Check: 6512 ..
; abh50395

Query Match
57.0%; Score 11.4; DB 1; Length 13;
```

Best Local Similarity 92.3%; Pred. No. 74;
Matches 12: Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2739 CTCATATAATTC 2751
| | | | | | | | | |
Db 1 CGCATATAATTC 13

RESULT 32
abh53970/c
TOIG of: abh53970 check: 6979 from: 1 to: 13

;; ID ABH53970 standard; DNA; 13 BP.
;; XX
;; AC ABH53970;
;; XX
;; DT 22-FEB-2002 (first entry)
;; XX
;; DE Oligonucleotide SEQ ID NO 253947 for detecting SNP TSC0061924.
;; XX

SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
central nervous system; gastrointestinal; respiratory; immune; metabolic.

OS Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX

PD 06-APR-2001; 2001WO-1B00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX

PR (EPIC-) EPIGENOMICS AG.
XX
XX Olek A, Plepenbrock C, Berlin K;
XX

PI WPI; 2001-657177/75.
XX
XX
XX

PT Set of oligonucleotides, useful for diagnosis and cell typing, is
designed to detect single nucleotide polymorphisms and cytosine
methylation status -
XX

PS Claim 1: SEQ ID 253947; 29pp + Sequence Listing; German.
XX
XX

CC This invention describes novel oligonucleotide primers or peptide nucleic
acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
and cytosine methylation status in chemically pretreated genomic DNA. The
oligonucleotides are used for diagnosis and/or prognosis of cancer and a
range of diseases including immune system, gastrointestinal, respiratory,
central nervous system, cardiovascular and metabolic disorders. The
oligonucleotides are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABP00010-ABP99989, ABR00010-ABR99989 and
CC ABR00010-ABR82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
specification, but was obtained in electronic format from WIPO at
ftp.wipo.int/pub/published_pct_sequences.
XX

CC Sequence 13 BP; 7 A; 0 C; 0 G; 6 T; 0 other;
XX
XX

;; ABH53970 Length: 13 September 17, 2003 14:26 Type: N Check: 6979 ..
;; abh53970

Query Match 57.0%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 74;
Matches 12: Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2743 ATAAATTCCTTT 2755
| | | | | | | | | |
Db 13 ATAAATTCCTTT 1

RESULT 33
abh53971
TOIG of: abh53971 check: 7112 from: 1 to: 13

;; ID ABH53971 standard; DNA; 13 BP.
;; XX
;; AC ABH53971;
;; XX
;; DT 22-FEB-2002 (first entry)
;; XX

DE Oligonucleotide SEQ ID NO 253948 for detecting SNP TSC0061924.
XX
XX

SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
central nervous system; gastrointestinal; respiratory; immune; metabolic.

OS Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX

PD 06-APR-2001; 2001WO-1B00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX

PR (EPIC-) EPIGENOMICS AG.
XX
XX Olek A, Plepenbrock C, Berlin K;
XX

PI WPI; 2001-657177/75.
XX
XX
XX

PT Set of oligonucleotides, useful for diagnosis and cell typing, is
designed to detect single nucleotide polymorphisms and cytosine
methylation status -
XX

PS Claim 1: SEQ ID 253948; 29pp + Sequence Listing; German.
XX
XX

CC This invention describes novel oligonucleotide primers or peptide nucleic
acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
and cytosine methylation status in chemically pretreated genomic DNA. The
oligonucleotides are used for diagnosis and/or prognosis of cancer and a
range of diseases including immune system, gastrointestinal, respiratory,
central nervous system, cardiovascular and metabolic disorders. The
oligonucleotides are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABP00010-ABP99989, ABR00010-ABR99989 and
CC ABR00010-ABR82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
specification, but was obtained in electronic format from WIPO at
ftp.wipo.int/pub/published_pct_sequences.
XX

CC Sequence 13 BP; 6 A; 0 C; 0 G; 7 T; 0 other;
XX
XX

;; ABH53971 Length: 13 September 17, 2003 14:26 Type: N Check: 7112 ..
;; abh53971

Query Match 57.0%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 74;
Matches 12: Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2743 ATAAATTCCTTT 2755
| | | | | | | | | |
Db 1 ATAAATTCCTTT 13

RESULT 34
abh56848/c
TOIG of: abh56848 check: 6831 from: 1 to: 13

;; ID ABH56848 standard; DNA; 13 BP.
;; XX
;; AC ABH56848;
;; XX

```

; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 256825 for detecting SNP TSC0009372.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; PS Claim 1; SEQ ID 256825; 49pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABH00010-ABH82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 8 A; 0 C; 1 G; 4 T; 0 other;
; ABH56848 Length: 13 September 17, 2003 14:26 Type: N Check: 6831
; abh56848
;
; Query Match 57.0%; Score 11.4; DB 1; Length 13;
; Best Local Similarity 92.3%; Pred. No. 74;
; Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; QY 2745 AAAATTCCTTTCT 2757
; DB 13 AAAATTCCTTTT 1
;
; RESULT 35
; abh56848
; TOIG of: abh56848 check: 7335 from: 1 to: 13
;
; ID ABH56849 standard; DNA; 13 BP.
; XX
; AC ABH56849;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 256826 for detecting SNP TSC0009372.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX

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; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; PS Claim 1; SEQ ID 256826; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABH00010-ABH82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 4 A; 1 C; 0 G; 8 T; 0 other;
; ABH56849 Length: 13 September 17, 2003 14:26 Type: N Check: 7335
; abh56849
;
; Query Match 57.0%; Score 11.4; DB 1; Length 13;
; Best Local Similarity 92.3%; Pred. No. 74;
; Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; QY 2745 AAAATTCCTTTCT 2757
; DB 1 AAAATTCCTTTT 13
;
; RESULT 36
; abv64541
; TOIG of: abv64541 check: 4751 from: 1 to: 11
;
; ID ABV64541 standard; cDNA; 11 BP.
; XX
; AC ABV64541;
; XX
; DT 21-OCT-2002 (first entry)
; XX
; DE Human skin EST 2327.
; XX
; KW Human; skin; dermatological; vulvular; antipsoriatic; antiseborrheic;
; KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
; KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
; XX
; OS Homo sapiens.
; XX
; PN WO200253774-A2.
; PD 11-JUL-2002.
; XX
; PF 20-DEC-2001; 2001WO-EP15179.
; XX

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; PR 03-JAN-2001; 2001DE-1000127.
; XX (HENK ) HENKEL KGAA.
; XX Petersohn D, Conradt M, Hofmann K;
; XX DR WPI; 2002-590638/63.
; XX
; XX In vitro identification of skin-expressed genes, useful for determining
; PT homeostasis and identifying cosmetic or pharmaceutical agents against
; PT e.g. skin cancer
; XX
; XX Disclosure; Page 89; 1345pp; German.
; XX
; XX The invention relates to in vitro identification (M1) of genes expressed
; CC in the skin of humans or animals by subjecting a mixture of genetically
; CC encoded factors from skin, to serial analysis of gene expression (SAGE).
; CC so as to identify skin-expressed genes and quantify their expression.
; CC (M1) is useful for identifying genes involved in skin homeostasis; to
; CC determine skin homeostasis and to test agent (A) that maintains or
; CC promotes skin homeostasis or that can be used for treating skin
; CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
; CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
; CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
; CC skin. The present sequence is that of a human expressed sequence tag
; CC (EST) of the invention.
; XX
; SQ Sequence 11 BP; 6 A; 2 C; 0 G; 3 T; 0 other;
;
; ABV64541 Length: 11 September 17, 2003 14:26 Type: N Check: 4751
abv64541
Query Match 55.0%; Score 11; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 80;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2741 CAATAAAATTC 2751
DB 1 CAATAAAATTC 11

RESULT 37
abv71962
; TOIG of: abv71962 check: 4751 from: 1 to: 11
; ID ABV71962 standard; cDNA; 11 BP.
; XX AC ABV71962;
; XX DT 21-OCT-2002 (first entry)
; XX DE Human skin EST 9748.
; XX KW Human; skin; dermatological; vulnary; antipsoriatic; antiseborrhaeic;
; XX KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
; XX KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
; XX OS Homo sapiens.
; XX PN WO200253774-A2.
; XX PD 11-JUL-2002.
; XX PR 20-DEC-2001; 2001WO-EF15179.
; XX PR 03-JAN-2001; 2001DE-1000127.
; XX PA (HENK ) HENKEL KGAA.
; XX PI Petersohn D, Conradt M, Hofmann K;
; XX DR WPI; 2002-590638/63.
; XX

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```

; PT In vitro identification of skin-expressed genes, useful for determining
; PT homeostasis and identifying cosmetic or pharmaceutical agents against
; XX e.g. skin cancer
; XX Claim 24; Page 315; 1345pp; German.
; XX
; XX The invention relates to in vitro identification (M1) of genes expressed
; CC in the skin of humans or animals by subjecting a mixture of genetically
; CC encoded factors from skin, to serial analysis of gene expression (SAGE)
; CC so as to identify skin-expressed genes and quantify their expression.
; CC (M1) is useful for identifying genes involved in skin homeostasis; to
; CC determine skin homeostasis and to test agent (A) that maintains or
; CC promotes skin homeostasis or that can be used for treating skin
; CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
; CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
; CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
; CC skin. The present sequence is that of a human expressed sequence tag
; CC (EST) of the invention.
; XX
; SQ Sequence 11 BP; 6 A; 2 C; 0 G; 3 T; 0 other;
;
; ABV71962 Length: 11 September 17, 2003 14:26 Type: N Check: 4751
abv71962
Query Match 55.0%; Score 11; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 80;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2741 CAATAAAATTC 2751
DB 1 CAATAAAATTC 11

RESULT 38
abv69872
; TOIG of: abv69872 check: 5439 from: 1 to: 12
; ID ABH69872 standard; DNA; 12 BP.
; XX AC ABH69872;
; XX DT 22-FEB-2002 (first entry)
; XX DE Oligonucleotide primer SEQ ID NO 269849 for detecting SNP TSC0001903.
; XX KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; XX KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; XX KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX OS Homo sapiens.
; XX PN WO200177384-A2.
; XX PD 18-OCT-2001.
; XX PR 06-APR-2001; 2001WO-IB00713.
; XX PR 07-APR-2000; 2000DE-1019173.
; XX PA (EPIG-) EPIGENOMICS AG.
; XX PI Olek A, Plepenbrock C, Berlin K;
; XX DR WPI; 2001-657177/75.
; XX
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 269849; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)

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CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC AB000010-AB099989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABH00010-ABH2073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
CC
CC Sequence 12 BP; 7 A; 2 C; 0 G; 3 T; 0 other;
CC
CC ABH69872 Length: 12 September 17, 2003 14:26 Type: N Check: 5439 ..
abH69872

Query Match          55.0%; Score 11; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 85;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2739 TCATATAAAT 2749
Db      1 CTCATATAAT 11
      |||||
RESULT 39
abH77906
TOIG of: abH77906 check: 5684 from: 1 to: 12
ID      ABH77906 standard; DNA: 12 BP.
XX      ABH77906;
XX      22-FEB-2002 (first entry)
XX      Oligonucleotide primer SEQ ID NO 277899 for detecting SNP TSC0005170.
XX      SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX      peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX      central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX      Homo sapiens.
XX      WO200177384-A2.
XX      18-OCT-2001.
XX      06-APR-2001; 2001WO-IB00713.
XX      07-APR-2000; 2000DE-1019173.
XX      (EPIG-) EPIGENOMICS AG.
XX      Olek A, Piepenbrock C, Berlin K;
XX      WPI; 2001-657177/75.
XX      Set of oligonucleotides, useful for diagnosis and cell typing, is
XX      designed to detect single nucleotide polymorphisms and cytosine
XX      methylation status -
XX      Claim 1; SEQ ID 277899; 29pp + Sequence Listing; German.
PS      This invention describes novel oligonucleotide primers or peptide nucleic
CC      acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC      and cytosine methylation status in chemically pretreated genomic DNA. The
CC      oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC      range of diseases including immune system, gastrointestinal, respiratory,
CC      central nervous system, cardiovascular and metabolic disorders. The
CC      oligomers are also used for detecting cell type differentiation.
CC      AB000010-AB099989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC      ABH00010-ABH2073 represent the oligomers described in the invention.
CC      NOTE: The sequence data for this patent did not form part of the printed
CC      specification, but was obtained in electronic format from WIPO at
CC      ftp.wipo.int/pub/published_pct_sequences.
CC
```

```
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
CC
CC Sequence 12 BP; 6 A; 1 C; 0 G; 5 T; 0 other;
CC
CC ABH77906 Length: 12 September 17, 2003 14:26 Type: N Check: 5684 ..
abH77906

Query Match          55.0%; Score 11; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 85;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2740 TCATATAAAT 2750
Db      2 TCATATAAAT 12
      |||||
RESULT 40
abH94140/C
TOIG of: abH94140 check: 5939 from: 1 to: 12
ID      ABH94140 standard; DNA: 12 BP.
XX      ABH94140;
XX      22-FEB-2002 (first entry)
XX      Oligonucleotide primer SEQ ID NO 294133 for detecting SNP TSC0015968.
XX      SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX      peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX      central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX      Homo sapiens.
XX      WO200177384-A2.
XX      18-OCT-2001.
XX      06-APR-2001; 2001WO-IB00713.
XX      07-APR-2000; 2000DE-1019173.
XX      (EPIG-) EPIGENOMICS AG.
XX      Olek A, Piepenbrock C, Berlin K;
XX      WPI; 2001-657177/75.
XX      Set of oligonucleotides, useful for diagnosis and cell typing, is
XX      designed to detect single nucleotide polymorphisms and cytosine
XX      methylation status -
XX      Claim 1; SEQ ID 294133; 29pp + Sequence Listing; German.
PS      This invention describes novel oligonucleotide primers or peptide nucleic
CC      acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC      and cytosine methylation status in chemically pretreated genomic DNA. The
CC      oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC      range of diseases including immune system, gastrointestinal, respiratory,
CC      central nervous system, cardiovascular and metabolic disorders. The
CC      oligomers are also used for detecting cell type differentiation.
CC      AB000010-AB099989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC      ABH00010-ABH2073 represent the oligomers described in the invention.
CC      NOTE: The sequence data for this patent did not form part of the printed
CC      specification, but was obtained in electronic format from WIPO at
CC      ftp.wipo.int/pub/published_pct_sequences.
CC
CC Sequence 12 BP; 5 A; 0 C; 2 G; 5 T; 0 other;
CC
CC ABH94140 Length: 12 September 17, 2003 14:26 Type: N Check: 5939 ..
abH94140
```

```
Query Match      55.0%; Score 11; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 85;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2743 ATAAATTCCTT 2753
      |||||||
Db      11 ATAAATTCCTT 1

RESULT 41
abH94751
; TOIG of: abH94751 check: 5810 from: 1 to: 12
; ID ABH94751 standard; DNA; 12 BP.
; XX
; AC ABH94751;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 294744 for detecting SNP TSC0016255.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PT (EPIG-) EPIGENOMICS AG.
; PA
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; PS WPI; 2001-657177/75.
; DR
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; PT
; PS Claim 1: SEQ ID 294744; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABI00010-ABI82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; XX Sequence 12 BP; 6 A; 1 C; 0 G; 5 T; 0 other;
; SQ
; ABH94751 Length: 12 September 17, 2003 14:26 Type: N Check: 5810 ..
; abH94751

Query Match      55.0%; Score 11; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 85;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2743 ATAAATTCCTT 2753
      |||||||
Db      1 ATAAATTCCTT 11
```

```
RESULT 42
abI00303/c
; TOIG of: abI00303 check: 6050 from: 1 to: 12
; ID ABI00303 standard; DNA; 12 BP.
; XX
; AC ABI00303;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 300276 for detecting SNP TSC0018946.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PT (EPIG-) EPIGENOMICS AG.
; PA
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; PS WPI; 2001-657177/75.
; DR
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; PT
; PS Claim 1: SEQ ID 300276; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABI00010-ABI82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; XX Sequence 12 BP; 6 A; 0 C; 1 G; 5 T; 0 other;
; SQ
; ABI00303 Length: 12 September 17, 2003 14:26 Type: N Check: 6050 ..
; abI00303

Query Match      55.0%; Score 11; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 85;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2745 AAAATTCCTTT 2755
      |||||||
Db      11 AAAATTCCTTT 1

RESULT 43
abI00304/c
; TOIG of: abI00304 check: 5846 from: 1 to: 12
; ID ABI00304 standard; DNA; 12 BP.
; XX
; AC ABI00304;
```

```

; XX 22-FEB-2002 (first entry)
; DT
; XX Oligonucleotide primer SEQ ID NO 300277 for detecting SNP TSC0018946.
; DE
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIG-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; XX WPI; 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 300277; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 6 A; 1 C; 1 G; 4 T; 0 other;
; AB100304 Length: 12 September 17, 2003 14:26 Type: N Check: 5846 ..
; ab100304
;
; Query Match 55.0%; Score 11; DB 1; Length 12;
; Best Local Similarity 100.0%; Pred. No. 85;
; Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
;
; QY 2745 AAAATTCCTTT 2755
; DB 11 AAAATTCCTTT 1
;
; RESULT 44
; ab111419
; TOIG of: ab111419 check: 5531 from: 1 to: 12
;
; ID AB111419 standard; DNA; 12 BP.
; XX
; AC AB111419;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 311392 for detecting SNP TSC0024464.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; PF

```

```

; XX Homo sapiens.
; OS
; XX WO200177384-A2.
; PN
; XX 18-OCT-2001.
; PD
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIG-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; XX WPI; 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 311392; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 7 A; 2 C; 0 G; 3 T; 0 other;
; AB111419 Length: 12 September 17, 2003 14:26 Type: N Check: 5531 ..
; ab111419
;
; Query Match 55.0%; Score 11; DB 1; Length 12;
; Best Local Similarity 100.0%; Pred. No. 85;
; Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
;
; QY 2741 CAATTAATTC 2751
; DB 1 CAATTAATTC 11
;
; RESULT 45
; ab124949
; TOIG of: ab124949 check: 5519 from: 1 to: 12
;
; ID AB124949 standard; DNA; 12 BP.
; XX
; AC AB124949;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 324922 for detecting SNP TSC0032300.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.

```

```
;; XX 07-APR-2000; 2000DE-1019173.
;; PR
;; XX (EPiG-) EPIGENOMICS AG.
;; PA
;; XX Olek A, Piepenbrock C, Berlin K;
;; PI
;; XX WPI; 2001-657177/75.
;; DR
;; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
;; PT designed to detect single nucleotide polymorphisms and cytosine
;; PT methylation status -
;; XX
;; PS Claim 1; SEQ ID 324922; 29pp + Sequence Listing; German.
;; CC This invention describes novel oligonucleotide primers or peptide nucleic
;; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
;; CC and cytosine methylation status in chemically pretreated genomic DNA. The
;; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
;; CC range of diseases including immune system, gastrointestinal, respiratory,
;; CC central nervous system, cardiovascular and metabolic disorders. The
;; CC oligomers are also used for detecting cell type differentiation.
;; CC ABC00010-ABC99989, ABH00010-ABH99989 and
;; CC AB100010-AB182073 represent the oligomers described in the invention.
;; CC NOTE: The sequence data for this patent did not form part of the printed
;; CC specification, but was obtained in electronic format from WIPO at
;; CC ftp.wipo.int/pub/published_pcl_sequences.
;; CC
;; SQ Sequence 12 BP; 6 A; 2 C; 0 G; 4 T; 0 other;
;;
;; AB124949 Length: 12 September 17, 2003 14:26 Type: N Check: 5519 ..
;; ab124949
Query Match 55.0%; Score 11; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 85;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2739 CTCATTAAT 2749
Db 2 CTCATTAAT 12
RESULT 46
ab135669
TOIG of: ab135669 check: 5502 from: 1 to: 12
ID AB135669 standard; DNA: 12 BP.
AC AB135669;
XX
XX 22-FEB-2002 (first entry)
DT
XX
XX Oligonucleotide primer SEQ ID NO 335642 for detecting SNP TSC0000578.
DE
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPiG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX
```

```
;; XX
;; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
;; PT designed to detect single nucleotide polymorphisms and cytosine
;; PT methylation status -
;; XX
;; PS Claim 1; SEQ ID 335642; 29pp + Sequence Listing; German.
;; CC This invention describes novel oligonucleotide primers or peptide nucleic
;; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
;; CC and cytosine methylation status in chemically pretreated genomic DNA. The
;; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
;; CC range of diseases including immune system, gastrointestinal, respiratory,
;; CC central nervous system, cardiovascular and metabolic disorders. The
;; CC oligomers are also used for detecting cell type differentiation.
;; CC ABC00010-ABC99989, ABH00010-ABH99989 and
;; CC AB100010-AB182073 represent the oligomers described in the invention.
;; CC NOTE: The sequence data for this patent did not form part of the printed
;; CC specification, but was obtained in electronic format from WIPO at
;; CC ftp.wipo.int/pub/published_pcl_sequences.
;; CC
;; SQ Sequence 12 BP; 6 A; 3 C; 0 G; 3 T; 0 other;
;;
;; AB135669 Length: 12 September 17, 2003 14:26 Type: N Check: 5502 ..
;; ab135669
Query Match 55.0%; Score 11; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 85;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2739 CTCATTAAT 2749
Db 2 CTCATTAAT 12
RESULT 47
ab145127
TOIG of: ab145127 check: 5757 from: 1 to: 12
ID AB145127 standard; DNA: 12 BP.
AC AB145127;
XX
XX 22-FEB-2002 (first entry)
DT
XX
XX Oligonucleotide primer SEQ ID NO 345100 for detecting SNP TSC0007989.
DE
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPiG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX PT designed to detect single nucleotide polymorphisms and cytosine
XX PT methylation status -
XX
XX Claim 1; SEQ ID 345100; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
```

~~CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC9989, ABF00010-ABF9989, ABH00010-ABH9989 and
CC ABI00010-ABI82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp://ipo.int/pub/published_pct_sequences.~~

~~XX SQ Sequence 12 BP; 7 A; 1 C; 0 G; 4 T; 0 other;
XX
XX ABI45127 Length: 12 September 17, 2003 14:26 Type: N Check: 5757 ..
XX abi45127~~

~~Query Match 55.0%; Score 11; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 85;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;~~

~~OY 2742 AATTAATAATTCT 2752
|||||
Db 2 AATTAATAATTCT 12~~

~~RESULT 48
abi53681/c
TOIG of: abi53681 check: 5974 from: 1 to: 12~~

~~ID ABI53681 standard; DNA; 12 BP.
XX AC ABI53681;
XX
XX 22-FEB-2002 (first entry)
DE Oligonucleotide primer SEQ ID NO 353654 for detecting SNP TSC0048633.
XX
XX SNP, single nucleotide, polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
OS Homo sapiens.
XX
XX WO200177384-A2.
XX PN
XX PD 18-OCT-2001.
XX PF 06-APR-2001; 2001MO-IB00713.
XX PR 07-APR-2000; 2000DE-1019173.
XX PA (EPIC-) EPIGENOMICS AG.
XX PI Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
DR
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
XX Claim 1; SEQ ID 353654; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic acid
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC9989, ABF00010-ABF9989, ABH00010-ABH9989 and
XX ABI00010-ABI82073 represent the oligomers described in the invention.~~

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CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp://ipo.int/pub/published_pct_sequences.
CC
XX Sequence 12 BP; 5 A; 0 C; 2 G; 5 T; 0 other;
SQ
AB153681 Length: 12 September 17, 2003 14:26 Type: N Check: 5974 ..
ab153681
Query Match 55.0%; Score 11; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 85;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2743 ATAAATTCCTT 2753
|||||N||
Db 12 ATAAATTCCTT 2
RESULT 49
abi68821/c
TOIG of: abi68821 check: 5828 from: 1 to: 12
ID AB168821 standard; DNA; 12 BP.
XX
XX AC AB168821;
XX
XX DT 22-FEB-2002 (first entry)
XX
XX Q1gonucleotide primer SEQ ID NO 368794 for detecting SNP TSC0057232.
DE
XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
XX MO200117364-A2.
PN
XX 18-OCT-2001.
PD
XX 06-APR-2001; 2001WO-1B00713.
PF
XX 07-APR-2000; 2000DE-1019173.
PR
XX (EPig-) EPIGENOMICS AG.
PA
XX Olek A, Piepenbrock C, Berlin K;
PI
XX WPI; 2001-657177/73.
PT
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
PS Claim 1: SEQ ID 368794; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABR99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX ABI00010-ABI82073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp://ipo.int/pub/published_pct_sequences.
XX
XX Sequence 12 BP; 6 A; 0 C; 2 G; 4 T; 0 other;
SQ
AB168821 Length: 12 September 17, 2003 14:26 Type: N Check: 5828 ..
ab168821
```

Query Match 55.0%; Score 11; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 85;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2744 TAAATTCCTT 2754
|||||
Db 12 TAAATTCCTT 2

RESULT 50
abi77245/c

TOIG of: abi77245 check: 6114 from: 1 to: 12

ID ABI77245 standard; DNA; 12 BP.

AC ABI77245;

DT 22-FEB-2002 (first entry)

XX Oligonucleotide primer SEQ ID NO 377218 for detecting SNP TSC0062193.

DE SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;

XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

KW central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX Homo sapiens.

OS WO200177384-A2.

PN 18-OCT-2001.

PD 06-APR-2001; 2001WO-IB00713.

PE 07-APR-2000; 2000DE-1019173.

PR (EPIC-) EPIGENOMICS AG.

PA Olek A, Piepenbrock C, Berlin K;

PI WPI; 2001-657177/75.

PS WPI; 2001-657177/75.

XX Set of oligonucleotides, useful for diagnosis and cell typing, is

PT designed to detect single nucleotide polymorphisms and cytosine

XX methylation status -

XX Claim 1; SEQ ID 377218; 29pp + sequence listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic

XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)

XX and cytosine methylation status in chemically pretreated genomic DNA. The

XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a

XX range of diseases including immune system, gastrointestinal, respiratory,

XX central nervous system, cardiovascular and metabolic disorders. The

XX oligomers are also used for detecting cell type differentiation.

XX ABC00010-ABC99989, ABR00010-ABR99989, ABH00010-ABH99989 and

XX ABH00010-ABH82073 represent the oligomers described in the invention.

XX NOTE: The sequence data for this patent did not form part of the printed

XX specification, but was obtained in electronic format from WIPO at

XX ftp.wipo.int/pub/published_pct_sequences.

XX SQ Sequence 12 BP; 4 A; 0 C; 1 G; 7 T; 0 other;

XX ABI77245 Length: 12 September 17, 2003 14:26 Type: N Check: 6114 ..

Query Match 55.0%; Score 11; DB 1; Length 12;

Best Local Similarity 100.0%; Pred. No. 85;

Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2742 AATAAATTCCT 2752
|||||
Db 12 AATAAATTCCT 2

RESULT 51

abi81180

TOIG of: abi81180 check: 5815 from: 1 to: 12

ID ABI81180 standard; DNA; 12 BP.

AC ABI81180;

DT 22-FEB-2002 (first entry)

XX Oligonucleotide primer SEQ ID NO 381153 for detecting SNP TSC0064207.

DE SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;

XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

KW central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX Homo sapiens.

OS WO200177384-A2.

PN 18-OCT-2001.

PD 06-APR-2001; 2001WO-IB00713.

PE 07-APR-2000; 2000DE-1019173.

PR (EPIC-) EPIGENOMICS AG.

PA Olek A, Piepenbrock C, Berlin K;

PI WPI; 2001-657177/75.

PS WPI; 2001-657177/75.

XX Set of oligonucleotides, useful for diagnosis and cell typing, is

PT designed to detect single nucleotide polymorphisms and cytosine

XX methylation status -

XX Claim 1; SEQ ID 381153; 29pp + sequence listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic

XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)

XX and cytosine methylation status in chemically pretreated genomic DNA. The

XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a

XX range of diseases including immune system, gastrointestinal, respiratory,

XX central nervous system, cardiovascular and metabolic disorders. The

XX oligomers are also used for detecting cell type differentiation.

XX ABC00010-ABC99989, ABR00010-ABR99989, ABH00010-ABH99989 and

XX ABH00010-ABH82073 represent the oligomers described in the invention.

XX NOTE: The sequence data for this patent did not form part of the printed

XX specification, but was obtained in electronic format from WIPO at

XX ftp.wipo.int/pub/published_pct_sequences.

XX SQ Sequence 12 BP; 6 A; 1 C; 0 G; 5 T; 0 other;

XX ABI81180 Length: 12 September 17, 2003 14:26 Type: N Check: 5815 ..

Query Match 55.0%; Score 11; DB 1; Length 12;

Best Local Similarity 100.0%; Pred. No. 85;

Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2740 TCAATTAATTT 2750
|||||
Db 1 TCAATTAATTT 11

RESULT 52

abc25184/c

TOIG of: abc25184 check: 6418 from: 1 to: 13

ID ABC25184 standard; DNA; 13 BP.

XX

```

; AC ABC25184;
; XX 20-FEB-2002 (first entry)
; DT
; XX
; DE Oligonucleotide SEQ ID NO 25201 for detecting SNP TSC0006159.
; XX
; XX SNP; single nucleotide polymorphism; human; diagnosis: PNA; cancer: CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens
; XX
; XX WO200177384-A2.
; XX
; XX 18-OCT-2001.
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; XX
; XX 07-APR-2000; 2000DE-1019173.
; XX
; XX (EPIC-) EPIDENOMICS AG.
; XX
; XX Olek A, Piepenbrock C, Berlin K;
; XX
; XX WPI: 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; XX Claim 1: SEQ ID 25201; 29pp + Sequence Listing; German.
; PS
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; XX Sequence 13 BP; 9 A; 0 C; 2 G; 2 T; 0 other;
; SQ
; ABC25184 Length: 13 September 17, 2003 14:26 Type: N Check: 6418 ..
; abc25184

Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 90;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2747 AATTCCTTCT 2757
DB 12 AATTCCTTCT 2

RESULT 53
abc25185
TOIG of: abc25185 check: 7260 from: 1 to: 13
; ID ABC25185 standard; DNA; 13 BP.
; XX
; AC ABC25185;
; XX
; DT 20-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 25202 for detecting SNP TSC0006159.
; XX
; XX SNP; single nucleotide polymorphism; human; diagnosis: PNA; cancer: CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM

```

```

; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; XX Homo sapiens.
; XX
; XX WO200177384-A2.
; XX
; XX 18-OCT-2001.
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; XX
; XX 07-APR-2000; 2000DE-1019173.
; XX
; XX (EPIC-) EPIDENOMICS AG.
; XX
; XX Olek A, Piepenbrock C, Berlin K;
; XX
; XX WPI: 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; XX Claim 1: SEQ ID 25202; 29pp + Sequence Listing; German.
; PS
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; XX Sequence 13 BP; 2 A; 2 C; 0 G; 9 T; 0 other;
; SQ
; ABC25185 Length: 13 September 17, 2003 14:26 Type: N Check: 7260 ..
; abc25185

Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 90;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2747 AATTCCTTCT 2757
DB 2 AATTCCTTCT 12

RESULT 54
abc26384/c
TOIG of: abc26384 check: 6996 from: 1 to: 13
; ID ABC26384 standard; DNA; 13 BP.
; XX
; AC ABC26384;
; XX
; DT 20-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 26401 for detecting SNP TSC0006956.
; XX
; XX SNP; single nucleotide polymorphism; human; diagnosis: PNA; cancer: CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; XX WO200177384-A2.
; XX
; XX 18-OCT-2001.
; PD
; XX

```

```

; PE 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 26401; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 7 A; 0 C; 1 G; 5 T; 0 other;
;
; ABC26384 Length: 13 September 17, 2003 14:26 Type: N Check: 6996 ..
; abc26384
;
; Query Match 55.0%; Score 11; DB 1; Length 13;
; Best Local Similarity 100.0%; Pred. No. 90;
; Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
;
; QY 2745 AAAATTCCTTT 2755
; Db 12 AAAATTCCTTT 2
;
; RESULT 55
; abc26385
; TOLG of: abc26385 check: 7223 from: 1 to: 13
;
; ID ABC26385 standard; DNA; 13 BP.
; XX
; AC ABC26385
; XX
; DT 20-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 26402 for detecting SNP TSC0006956.
; XX
; SNF: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX

```

```

; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 26402; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 5 A; 1 C; 0 G; 7 T; 0 other;
;
; ABC26385 Length: 13 September 17, 2003 14:26 Type: N Check: 7223 ..
; abc26385
;
; Query Match 55.0%; Score 11; DB 1; Length 13;
; Best Local Similarity 100.0%; Pred. No. 90;
; Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
;
; QY 2745 AAAATTCCTTT 2755
; Db 2 AAAATTCCTTT 12
;
; RESULT 56
; abc50248
; TOLG of: abc50248 check: 7234 from: 1 to: 13
;
; ID ABC50248 standard; DNA; 13 BP.
; XX
; AC ABC50248;
; XX
; DT 21-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 50265 for detecting SNP TSC0014145.
; XX
; SNF: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 50265; 29pp + Sequence Listing; German.
; XX

```



```

; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; CC
; CC SQ Sequence 13 BP; 6 A; 0 C; 0 G; 6 T; 1 other;
; CC
; CC ABC50248 Length: 13 September 17, 2003 14:26 Type: N Check: 7234 ..
; CC abc50248
; CC
; CC Query Match 55.0%; Score 11; DB 1; Length 13;
; CC Best Local Similarity 84.6%; Pred. No. 90;
; CC Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
; CC
; CC QY 2742 AATFAAATTCCTT 2754
; CC Db 1 AATFAAATTTT 13
; CC
; CC RESULT 57
; CC abc50249/c
; CC TOIG of: abc50249 check: 7053 from: 1 to: 13
; CC
; CC ID ABC50249 standard; DNA; 13 BP.
; CC
; CC AC ABC50249;
; CC
; CC DT 21-FEB-2002 (first entry)
; CC
; CC DE Oligonucleotide SEQ ID NO 50266 for detecting SNP TSC0014145.
; CC
; CC SNP: single nucleotide polymorphism; human; diagnosis: PNA; cancer: CNS;
; CC peptide nucleic acid; cytosine methylation; cardiovascular; primer: ss;
; CC central nervous system; gastrointestinal; respiratory; immune; metabolic.
; CC
; CC OS Homo sapiens.
; CC
; CC PN WO200177384-A2.
; CC
; CC PD 18-OCT-2001.
; CC
; CC PF 06-APR-2001; 2001WO-IB00713.
; CC
; CC PR 07-APR-2000; 2000DE-1019173.
; CC
; CC PA (EPIC-) EPIDENOMICS AG.
; CC
; CC PI Olek A, Piepenbrock C, Berlin K;
; CC
; CC PS WPI; 2001-657177/75.
; CC
; CC PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; CC designed to detect single nucleotide polymorphisms and cytosine
; CC methylation status -
; CC
; CC XX Claim 1; SEQ ID 50266; 29pp + Sequence Listing; German.
; CC
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; CC
; CC SQ Sequence 13 BP; 6 A; 0 C; 0 G; 6 T; 1 other;
; CC
; CC ABC50248 Length: 13 September 17, 2003 14:26 Type: N Check: 7234 ..
; CC abc50248
; CC
; CC Query Match 55.0%; Score 11; DB 1; Length 13;
; CC Best Local Similarity 84.6%; Pred. No. 90;
; CC Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
; CC
; CC QY 2742 AATFAAATTCCTT 2754
; CC Db 13 AATFAAATTTT 1
; CC
; CC RESULT 58
; CC abc53848/c
; CC TOIG of: abc53848 check: 6991 from: 1 to: 13
; CC
; CC ID ABC53848 standard; DNA; 13 BP.
; CC
; CC AC ABC53848;
; CC
; CC DT 21-FEB-2002 (first entry)
; CC
; CC DE Oligonucleotide SEQ ID NO 53865 for detecting SNP TSC0014823.
; CC
; CC SNP: single nucleotide polymorphism; human; diagnosis: PNA; cancer: CNS;
; CC peptide nucleic acid; cytosine methylation; cardiovascular; primer: ss;
; CC central nervous system; gastrointestinal; respiratory; immune; metabolic.
; CC
; CC OS Homo sapiens.
; CC
; CC PN WO200177384-A2.
; CC
; CC PD 18-OCT-2001.
; CC
; CC PF 06-APR-2001; 2001WO-IB00713.
; CC
; CC PR 07-APR-2000; 2000DE-1019173.
; CC
; CC PA (EPIC-) EPIDENOMICS AG.
; CC
; CC PI Olek A, Piepenbrock C, Berlin K;
; CC
; CC PS WPI; 2001-657177/75.
; CC
; CC PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; CC designed to detect single nucleotide polymorphisms and cytosine
; CC methylation status -
; CC
; CC XX Claim 1; SEQ ID 53865; 29pp + Sequence Listing; German.
; CC
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; CC
; CC SQ Sequence 13 BP; 6 A; 0 C; 2 G; 4 T; 1 other;
; CC
; CC ABC53848 Length: 13 September 17, 2003 14:26 Type: N Check: 6991 ..

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; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; CC
; CC SQ Sequence 13 BP; 6 A; 0 C; 0 G; 6 T; 1 other;
; CC
; CC ABC50249 Length: 13 September 17, 2003 14:26 Type: N Check: 7053 ..
; CC abc50249
; CC
; CC Query Match 55.0%; Score 11; DB 1; Length 13;
; CC Best Local Similarity 84.6%; Pred. No. 90;
; CC Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
; CC
; CC QY 2742 AATFAAATTCCTT 2754
; CC Db 13 AATFAAATTTT 1
; CC
; CC RESULT 58
; CC abc53848/c
; CC TOIG of: abc53848 check: 6991 from: 1 to: 13
; CC
; CC ID ABC53848 standard; DNA; 13 BP.
; CC
; CC AC ABC53848;
; CC
; CC DT 21-FEB-2002 (first entry)
; CC
; CC DE Oligonucleotide SEQ ID NO 53865 for detecting SNP TSC0014823.
; CC
; CC SNP: single nucleotide polymorphism; human; diagnosis: PNA; cancer: CNS;
; CC peptide nucleic acid; cytosine methylation; cardiovascular; primer: ss;
; CC central nervous system; gastrointestinal; respiratory; immune; metabolic.
; CC
; CC OS Homo sapiens.
; CC
; CC PN WO200177384-A2.
; CC
; CC PD 18-OCT-2001.
; CC
; CC PF 06-APR-2001; 2001WO-IB00713.
; CC
; CC PR 07-APR-2000; 2000DE-1019173.
; CC
; CC PA (EPIC-) EPIDENOMICS AG.
; CC
; CC PI Olek A, Piepenbrock C, Berlin K;
; CC
; CC PS WPI; 2001-657177/75.
; CC
; CC PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; CC designed to detect single nucleotide polymorphisms and cytosine
; CC methylation status -
; CC
; CC XX Claim 1; SEQ ID 53865; 29pp + Sequence Listing; German.
; CC
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; CC
; CC SQ Sequence 13 BP; 6 A; 0 C; 2 G; 4 T; 1 other;
; CC
; CC ABC53848 Length: 13 September 17, 2003 14:26 Type: N Check: 6991 ..

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abc53848

Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 90;
Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 2743 ATAAATCTCTT 2755
:|||||||
Db 13 RTAAATCTCT 1

RESULT 59
abc53849

TOIG of: abc53849 check: 6943 from: 1 to: 13

ID ABC53849 standard; DNA; 13 BP.
AC ABC53849;
XX 21-FEB-2002 (first entry)
DE Oligonucleotide SEQ ID NO 53866 for detecting SNP TSC0014823.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
OS Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001MO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPIC-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
PS
PS Claim 1; SEQ ID 53866; 29pp + Sequence listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC9989, ABR00010-ABF9989, ABH00010-ABH9989 and
CC AB100010-AB182073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 13 BP; 4 A; 2 C; 0 G; 6 T; 1 other;
SQ

ABC53849 Length: 13 September 17, 2003 14:26 Type: N Check: 6943 ..
abc53849

Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 90;
Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 2743 ATAAATCTCTT 2755
:|||||||
Db 13 RTAAATCTCT 1

Db 1 RTAAATCTCT 13

RESULT 60
abc93662/c

TOIG of: abc93662 check: 7295 from: 1 to: 13

ID ABC93662 standard; DNA; 13 BP.
AC ABC93662;
XX
XX 21-FEB-2002 (first entry)
DE Oligonucleotide SEQ ID NO 93679 for detecting SNP TSC0023399.
XX
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
OS Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001MO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPIC-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
PS
PS Claim 1; SEQ ID 93679; 29pp + Sequence listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC9989, ABR00010-ABF9989, ABH00010-ABH9989 and
CC AB100010-AB182073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 13 BP; 4 A; 0 C; 1 G; 8 T; 0 other;
SQ

ABC93662 Length: 13 September 17, 2003 14:26 Type: N Check: 7295 ..
abc93662

Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 90;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2742 ATAAATCTCT 2752
:|||||||
Db 11 RTAAATCTCT 1

RESULT 61
abc93663

TOIG of: abc93663 check: 6680 from: 1 to: 13

ID ABC93663 standard; DNA; 13 BP.

```

: XX      ABC93663;
: AC
: XX
: DT      21-FEB-2002 (first entry)
: XX
: DE      Oligonucleotide SEQ ID NO 93680 for detecting SNP TSC0023399.
: XX
: XX      SNP: single nucleotide polymorphism; human; diagnosis: PNA; cancer; CNS;
: KM      peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
: KM      central nervous system; gastrointestinal; respiratory; immune; metabolic.
: OS      Homo sapiens.
: XX
: XX      WO20017384-A2.
: PN
: PD      18-OCT-2001.
: XX
: XX      06-APR-2001; 2001WO-1B00713.
: PE
: PR      07-APR-2000; 2000DE-1019173.
: XX
: XX      (EPIG-) EPIGENOMICS AG.
: PA
: PI      Olek A, Plepenbrock C, Berlin K;
: XX
: XX      WPI; 2001-657177/75.
: DR
: XX
: PT      Set of oligonucleotides, useful for diagnosis and cell typing, is
: PT      designed to detect single nucleotide polymorphisms and cytosine
: PT      methylation status
: XX
: PS      Claim 1; SEQ ID 93680; 29pp + Sequence Listing; German.
: XX
: XX      This invention describes novel oligonucleotide primers or peptide nucleic
: CC      acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
: CC      and cytosine methylation status in chemically pretreated genomic DNA. The
: CC      oligonucleotides are used for diagnosis and/or prognosis of cancer and a
: CC      range of diseases including immune system, gastrointestinal, respiratory,
: CC      central nervous system, cardiovascular and metabolic disorders. The
: CC      oligomers are also used for detecting cell type differentiation.
: CC      ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
: CC      ABH00010-ABH82073 represent the oligomers described in the invention.
: CC      NOTE: The sequence data for this patent did not form part of the printed
: CC      specification, but was obtained in electronic format from WIPO at
: CC      ftp.wipo.int/pub/published_pct_sequences.
: CC
: CC      Sequence 13 BP; 8 A; 1 C; 0 G; 4 T; 0 other;
: SQ
:
: ABC93663 Length: 13 September 17, 2003 14:26 Type: N Check: 6680 ..
: abc93663
:
: Query Match          55.0%; Score 11; DB 1; Length 13;
: Best Local Similarity 100.0%; Pred. No. 90;
: Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
:
: QY      2742 AATTAATAATCT 2752
:         |||||
:         3 AATTAATAATCT 13
:
: Db
:
: RESULT 62
: abf02688/c
: TOIG of: abf02688 check: 7241 from: 1 to: 13
:
: ID      ABF02688 standard; DNA; 13 BP.
: XX
: XX      ABF02688;
: AC
: XX
: XX      21-FEB-2002 (first entry)
: DT
: XX
: XX      Oligonucleotide SEQ ID NO 102685 for detecting SNP TSC0025646.
: DE
: XX      SNP; single nucleotide polymorphism; human; diagnosis: PNA; cancer; CNS;

```

peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
central nervous system; gastrointestinal; respiratory; immune; metabolic.

OS Homo sapiens.

XX WO200177384-A2.

XX PD 18-OCT-2001.

XX PF 06-APR-2001; 2001WO-IB00713.

XX PR 07-APR-2000; 2000DE-1019173.

XX (EPIC-) EPIGENOMICS AG.

XX Olek A. Piepenbrock C, Berlin K;

XX WPI; 2001-657177/75.

XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status

PS Claim 1; SEQ ID 102685; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.

CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABIO0010-ABI82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pcc_sequences.

XX Sequence 13 BP; 3 A; 0 C; 2 G; 8 T; 0 other;

XX ABR02688 Length: 13 September 17, 2003 14:26 Type: N Check: 7241 ..
XX abf02688

Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 90;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2741 CAATTAATTC 2751
|||||
DB 11 CAATTAATTC 1

RESULT 63
abf02689
TOIG of: abf02689 check: 6498 from: 1 to: 13

ID ABR02689 standard; DNA; 13 BP.
XX
AC ABR02689;
XX
DT 21-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 102686 for detecting SNP TSC0025646.
XX
SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.

```

; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPiG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 102686; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-AB099989, AB000010-AB099989 and
; CC AB000010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 8 A; 2 C; 0 G; 3 T; 0 other;
; XX
; AB02669 Length: 13 September 17, 2003 14:26 Type: N Check: 6498 ..
; AB02689

Query Match      55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 90;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2741 CAATAAATTC 2751
Db      3 CAATAAATTC 13

RESULT 64
AB08252
; TOIG of: abf08252 check: 7443 from: 1 to: 13
; ID ABF08252 standard; DNA; 13 BP.
; XX
; AC ABF08252;
; XX
; DT 21-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 108249 for detecting SNP TSC0027107.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPiG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
```

```

; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 108249; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-AB099989, AB000010-AB099989 and
; CC AB000010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 4 A; 0 C; 0 G; 8 T; 1 other;
; XX
; AB08252 Length: 13 September 17, 2003 14:26 Type: N Check: 7443 ..
; AB08252

Query Match      55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 90;
Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      2744 TAAATTCCTTTC 2756
Db      1 TAAATTCCTTTC 13

RESULT 65
AB08253/C
; TOIG of: abf08253 check: 6730 from: 1 to: 13
; ID ABF08253 standard; DNA; 13 BP.
; XX
; AC ABF08253;
; XX
; DT 21-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 108250 for detecting SNP TSC0027107.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPiG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 108250; 29pp + Sequence Listing; German.
```

```

; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-AB182073 represent the oligomers described in the invention.
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; CC Sequence 13 BP; 8 A; 0 C; 0 G; 4 T; 1 other;
; CC
; ABF08253 Length: 13 September 17, 2003 14:26 Type: N Check: 6730 ..
; abt08253
;
; Query Match 55.0%; Score 11; DB 1; Length 13;
; Best Local Similarity 84.6%; Pred. No. 90;
; Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
;
; QY 2744 TAAATTCCTTC 2756
; Db 13 TAAATTCCTTC 1
;
; RESULT 66
; abf1194/c
; TOIG of: abf1194 check: 6868 from: 1 to: 13
;
; ID ABF1194 standard; DNA; 13 BP.
; XX
; AC ABF1194;
; XX
; DT 21-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 111191 for detecting SNP TSC0027768.
; XX
; KW SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; PS WPI: 2001-657177/75.
; XX
; DR WPI: 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 111191; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-AB182073 represent the oligomers described in the invention.
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; CC Sequence 13 BP; 7 A; 1 C; 0 G; 5 T; 0 other;
; CC
```

```

; CC ABC00010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; CC Sequence 13 BP; 5 A; 0 C; 1 G; 7 T; 0 other;
; CC
; ABF1194 Length: 13 September 17, 2003 14:26 Type: N Check: 6868 ..
; abf1194
;
; Query Match 55.0%; Score 11; DB 1; Length 13;
; Best Local Similarity 100.0%; Pred. No. 90;
; Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
;
; QY 2740 TCAATTAATTT 2750
; Db 11 TCAATTAATTT 1
;
; RESULT 67
; abf1195
; TOIG of: abf1195 check: 6607 from: 1 to: 13
;
; ID ABF1195 standard; DNA; 13 BP.
; XX
; AC ABF1195;
; XX
; DT 21-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 111192 for detecting SNP TSC0027768.
; XX
; KW SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; PS WPI: 2001-657177/75.
; XX
; DR WPI: 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 111192; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-AB182073 represent the oligomers described in the invention.
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; CC Sequence 13 BP; 7 A; 1 C; 0 G; 5 T; 0 other;
; CC
```

ABF1135 Length: 13 September 17, 2003 14:26 Type: N Check: 6607 ..
abf1135

Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 90;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2740 TCAATMAAAT 2750
DB 3 TCAATMAAAT 13

RESULT 68
abf21138/c
TOIG of: abf21138 check: 6718 from: 1 to: 13

ID ABF21138 standard; DNA; 13 BP.
AC ABF21138;
XX
XX
XX 21-FEB-2002 (first entry)
XX
XX
XX Oligonucleotide SEQ ID NO 121135 for detecting SNP TSC0030233.
XX
XX
XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPIC-) EPIDENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.

DR Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status -
XX
XX
XX Claim 1; SEQ ID 121135; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX AB100010-AB182073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.

XX Sequence 13 BP; 5 A; 0 C; 2 G; 6 T; 0 other;
ABF21138 Length: 13 September 17, 2003 14:26 Type: N Check: 6718 ..
abf21138

Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 90;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2740 TCAATMAAAT 2750

DB 11 TCAATMAAAT 1

RESULT 69
abf21139
TOIG of: abf21139 check: 6628 from: 1 to: 13

ID ABF21139 standard; DNA; 13 BP.
AC ABF21139;
XX
XX
XX 21-FEB-2002 (first entry)
XX
XX
XX Oligonucleotide SEQ ID NO 121136 for detecting SNP TSC0030233.

XX
XX
XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPIC-) EPIDENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.

XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status -
XX
XX
XX Claim 1; SEQ ID 121136; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX AB100010-AB182073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.

XX Sequence 13 BP; 6 A; 2 C; 0 G; 5 T; 0 other;
ABF21139 Length: 13 September 17, 2003 14:26 Type: N Check: 6628 ..
abf21139

Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 90;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2740 TCAATMAAAT 2750
DB 3 TCAATMAAAT 13

RESULT 70
abf36498/c
TOIG of: abf36498 check: 6949 from: 1 to: 13

```

; ID ABE36498 standard; DNA; 13 BP.
; XX
; AC ABE36498;
; XX
; DT 21-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 136495 for detecting SNP TSC0034107.
; XX
; KW SNP, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PE 06-APR-2001; 2001WO-1B00713.
; XX
; PF 07-APR-2000; 2000DE-1019173.
; XX
; PR (EPIG-) EPIGENOMICS AG.
; XX
; PA Olek A, Piepenbrock C, Berlin K;
; XX
; PI WPI; 2001-657177/75.
; XX
; PS Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; PS Claim 1; SEQ ID 136495; 29bp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-AB009989, AB000010-AB009989, AB000010-AB009989 and
; CC AB000010-AB009989 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 8 A; 0 C; 0 G; 4 T; 1 other;
; AB36498 Length: 13 September 17, 2003 14:26 Type: N Check: 6949 ..
; ABE36498

```

Query Match 55.0%; Score 11; DB 1; Length 13;
 Best Local Similarity 84.6%; Pred. No. 90;
 Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2743 ATAAATCTTTT 2755
 :|||||
 Db 13 RTAAATTTTTT 1

RESULT 71
 ABE36499
 ; TOIG of: abf36499 check: 7300 from: 1 to: 13
 ; ID ABE36499 standard; DNA; 13 BP.
 ; XX
 ; AC ABE36499;
 ; XX
 ; DT 21-FEB-2002 (first entry)
 ; XX
 ; OS Homo sapiens.
 ; XX
 ; PN Oligonucleotide SEQ ID NO 136496 for detecting SNP TSC0034107.

```

; KW SNP, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PE 06-APR-2001; 2001WO-1B00713.
; XX
; PF 07-APR-2000; 2000DE-1019173.
; XX
; PR (EPIG-) EPIGENOMICS AG.
; XX
; PA Olek A, Piepenbrock C, Berlin K;
; XX
; PI WPI; 2001-657177/75.
; XX
; PS Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; PS Claim 1; SEQ ID 136496; 29bp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-AB009989, AB000010-AB009989, AB000010-AB009989 and
; CC AB000010-AB009989 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 4 A; 0 C; 0 G; 8 T; 1 other;
; AB36499 Length: 13 September 17, 2003 14:26 Type: N Check: 7300 ..
; ABE36499

```

Query Match 55.0%; Score 11; DB 1; Length 13;
 Best Local Similarity 84.6%; Pred. No. 90;
 Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2743 ATAAATCTTTT 2755
 :|||||
 Db 1 RTAAATTTTTT 13

RESULT 72
 abf40554/c
 ; TOIG of: abf40554 check: 6997 from: 1 to: 13
 ; ID ABE40554 standard; DNA; 13 BP.
 ; XX
 ; AC ABE40554;
 ; XX
 ; DT 21-FEB-2002 (first entry)
 ; XX
 ; DE Oligonucleotide SEQ ID NO 140551 for detecting SNP TSC0035239.
 ; XX
 ; KW SNP, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 ; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 ; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 ; XX
 ; OS Homo sapiens.
 ; XX
 ; PN WO200177384-A2.

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PD 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPiG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-65717/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status.
XX
XX Claim 1; SEQ ID 140551; 29pp + Sequence listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX AB100010-AB182073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
XX SO Sequence 13 BP; 6 A; 0 C; 2 G; 4 T; 1 other;
XX
XX ABF40554 Length: 13 September 17, 2003.14:26 Type: N Check: 6997 ..
XX abf40554

Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 90;
Matches 11; Conservative 1; Mismatches 0; Gaps 0;

QY 2743 ATAAATTCTTT 2755
DB 13 RTAAATTCCTT 1

RESULT 73
abf40555
TOIG of: abf40555 check: 6960 from: 1 to: 13
XX
XX ID ABF40555 standard; DNA; 13 BP.
XX
XX AC ABF40555;
XX
XX DT 21-FEB-2002 (first entry)
XX
XX DE Oligonucleotide SEQ ID NO 140552 for detecting SNP TSC0035239.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX OS Homo sapiens.
XX
XX PN WO200177384-A2.
XX
XX PD 18-OCT-2001.
XX
XX PF 06-APR-2001; 2001WO-IB00713.
XX
XX PR 07-APR-2000; 2000DE-1019173.
XX
XX PA (EPiG-) EPIGENOMICS AG.
XX

```

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PI Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-65717/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status.
XX
XX Claim 1; SEQ ID 140552; 29pp + Sequence listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX AB100010-AB182073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
XX SO Sequence 13 BP; 4 A; 2 C; 0 G; 6 T; 1 other;
XX
XX ABF40555 Length: 13 September 17, 2003.14:26 Type: N Check: 6960 ..
XX abf40555

Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 90;
Matches 11; Conservative 1; Mismatches 0; Gaps 0;

QY 2743 ATAAATTCTTT 2755
DB 1 RTAAATTCCTT 13

RESULT 74
abf60992/C
TOIG of: abf60992 check: 6764 from: 1 to: 13
XX
XX ID ABF60992 standard; DNA; 13 BP.
XX
XX AC ABF60992;
XX
XX DT 22-FEB-2002 (first entry)
XX
XX DE Oligonucleotide SEQ ID NO 160989 for detecting SNP TSC0040537.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX OS Homo sapiens.
XX
XX PN WO200177384-A2.
XX
XX PD 18-OCT-2001.
XX
XX PF 06-APR-2001; 2001WO-IB00713.
XX
XX PR 07-APR-2000; 2000DE-1019173.
XX
XX PA (EPiG-) EPIGENOMICS AG.
XX
XX PI Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-65717/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status.
XX

```



```

; PS Claim 1: SEQ ID 160989; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; CC Sequence 13 BP; 6 A; 0 C; 2 G; 5 T; 0 other;
; SQ
; ABF60992 Length: 13 September 17, 2003 14:26 Type: N Check: 6764
; abf60992

Query Match          55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 90;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2744 TAAATTCCTT 2754
DB 12 TAAATTCCTT 2

RESULT 75
abf60993
; TOIG of: abf60993 check: 6885 from: 1 to: 13
; ID ABF60993 standard; DNA; 13 BP.
; AC ABF60993;
; XX
; XX 22-FEB-2002 (first entry)
; DT
; XX
; DE Oligonucleotide SEQ ID NO 160990 for detecting SNP TSC0040537.
; XX
; KM SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PA
; PI Olek A, Plepenbrock C, Berlin K;
; XX
; PD 18-OCT-2001.
; PF
; PR 06-APR-2001; 2001WO-IB00713.
; XX
; XX 07-APR-2000; 2000DE-1019173.
; PA
; PI (EPIC-) EPIGENOMICS AG.
; XX
; PI Olek A, Plepenbrock C, Berlin K;
; XX
; PS WPI: 2001-657177/75.
; DR
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; CC Claim 1: SEQ ID 160990; 29pp + Sequence Listing; German.
; CC
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; CC Sequence 13 BP; 3 A; 0 C; 2 G; 8 T; 0 other;

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; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; CC Sequence 13 BP; 5 A; 2 C; 0 G; 6 T; 0 other;
; SQ
; ABF60993 Length: 13 September 17, 2003 14:26 Type: N Check: 6885
; abf60993

Query Match          55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 90;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2744 TAAATTCCTT 2754
DB 2 TAAATTCCTT 12

RESULT 76
abf65260/c
; TOIG of: abf65260 check: 7075 from: 1 to: 13
; ID ABF65260 standard; DNA; 13 BP.
; AC ABF65260;
; XX
; XX 22-FEB-2002 (first entry)
; DT
; XX
; DE Oligonucleotide SEQ ID NO 165257 for detecting SNP TSC0041445.
; XX
; KM SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PA
; PI Olek A, Plepenbrock C, Berlin K;
; XX
; PD 18-OCT-2001.
; PF
; PR 06-APR-2001; 2001WO-IB00713.
; XX
; XX 07-APR-2000; 2000DE-1019173.
; PA
; PI (EPIC-) EPIGENOMICS AG.
; XX
; PI Olek A, Plepenbrock C, Berlin K;
; XX
; PS WPI: 2001-657177/75.
; DR
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; CC Claim 1: SEQ ID 165257; 29pp + Sequence Listing; German.
; CC
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; CC Sequence 13 BP; 3 A; 0 C; 2 G; 8 T; 0 other;

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; ID ABE66891 standard; DNA; 13 BP.
; XX
; AC ABE6891;
; XX
; DT 22-FEB-2002 (first entry)
; DE
; XX Oligonucleotide SEQ ID NO 166888 for detecting SNP TSC0041779.
; DE
; XX SNP: single nucleotide polymorphism; human; diagnosis: PNA; cancer: CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer: ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX WO200177384-A2.
; XX 18-OCT-2001.
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; XX
; XX 07-APR-2000; 2000DE-1019173.
; XX
; XX (EPIC-) EPIDENOMICS AG.
; XX
; XX Olek A, Piepenbrock C, Berlin K;
; XX
; XX WPI; 2001-657177/75.
; XX
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; XX Claim 1; SEQ ID 166888; 29pp + Sequence Listing; German.
; PS
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABE00010-ABF99989, ABH00010-ABH99989 and
; CC ABI00010-ABI82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; XX Sequence 13 BP; 5 A; 0 C; 0 G; 7 T; 1 other;
; SQ
; ABF66891 Length: 13 September 17, 2003 14:26 Type: N Check: 7186 ..
; abf66891

Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 90;
Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2742 AATATAATCTCTT 2754
DB 1 RATAAATTTTTT 13

RESULT 80
abf73130/c
; TOIG of: abf73130 check: 6809 from: 1 to: 13
; ID ABE73130 standard; DNA; 13 BP.
; XX
; AC ABE73130;
; XX
; XX 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 173127 for detecting SNP TSC0043122.
; DE

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; XX
; KW SNP: single nucleotide polymorphism; human; diagnosis: PNA; cancer: CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer: ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX WO200177384-A2.
; XX 18-OCT-2001.
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; XX
; XX 07-APR-2000; 2000DE-1019173.
; XX
; XX (EPIC-) EPIDENOMICS AG.
; XX
; XX Olek A, Piepenbrock C, Berlin K;
; XX
; XX WPI; 2001-657177/75.
; XX
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; XX Claim 1; SEQ ID 173127; 29pp + Sequence Listing; German.
; PS
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABE00010-ABF99989, ABH00010-ABH99989 and
; CC ABI00010-ABI82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; XX Sequence 13 BP; 3 A; 0 C; 3 G; 7 T; 0 other;
; SQ
; ABE73130 Length: 13 September 17, 2003 14:26 Type: N Check: 6809 ..
; abf73130

Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 90;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2739 CTCATATAAAT 2749
DB 12 CTCATATAAAT 2

RESULT 81
abf73131
; TOIG of: abf73131 check: 6347 from: 1 to: 13
; ID ABE73131 standard; DNA; 13 BP.
; XX
; AC ABE73131;
; XX
; XX 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 173128 for detecting SNP TSC0043122.
; DE
; KW SNP: single nucleotide polymorphism; human; diagnosis: PNA; cancer: CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer: ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX WO200177384-A2.
; PN

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; XX 18-OCT-2001.
; PD
; XX
; XX 06-APR-2001: 2001MO-IB00713.
; PE
; XX 07-APR-2000: 2000DE-1019173.
; PR
; XX (EPiG-) EPIGENOMICS AG.
; PA
; XX Olek A, Piepenbrock C, Berlin K;
; PI
; XX WPI; 2001-657177/75.
; DR
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; PS
; XX Claim 1; SEQ ID 173128; 29pp + Sequence Listing; German.
; PS
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; XX
; SQ Sequence 13 BP; 7 A; 3 C; 0 G; 3 T; 0 other;
;
; ABF73131 Length: 13 September 17, 2003 14:26 Type: N Check: 6347
; abf73131
;
Query Match
Best Local Similarity 55.0%; Score 11; DB 1; Length 13;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
;
QY 2739 CTCATATAAAT 2749
;
Db 2 CTCATATAAAT 12
;
RESULT 82
; abf73874/G
; TOIG of: abf73874 check: 6850 from: 1 to: 13
;
; ID ABF73874 standard; DNA; 13 BP.
; XX
; AC ABF73874
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 173871 for detecting SNP TSC0043285.
; XX
; SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PE 06-APR-2001: 2001MO-IB00713.
; PF
; PR 07-APR-2000: 2000DE-1019173.
; XX
; PA (EPiG-) EPIGENOMICS AG.
;

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; XX
; PD Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; PS
; XX Claim 1; SEQ ID 173871; 29pp + Sequence Listing; German.
; PS
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; XX
; SQ Sequence 13 BP; 7 A; 0 C; 1 G; 5 T; 0 other;
;
; ABF73874 Length: 13 September 17, 2003 14:26 Type: N Check: 6850
; abf73874
;
Query Match
Best Local Similarity 55.0%; Score 11; DB 1; Length 13;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
;
QY 2745 AAAATTCCTTT 2751
;
Db 13 AAAATTCCTTT 3
;
RESULT 83
; abf73875
; TOIG of: abf73875 check: 7088 from: 1 to: 13
;
; ID ABF73875 standard; DNA; 13 BP.
; XX
; AC ABF73875;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 173872 for detecting SNP TSC0043285.
; XX
; SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PE 06-APR-2001: 2001MO-IB00713.
; PF
; PR 07-APR-2000: 2000DE-1019173.
; XX
; PA (EPiG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
;

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```
; SQ Sequence 13 BP; 5 A; 1 C; 0 G; 7 T; 0 other;
; ABF79565 Length: 13 September 17, 2003 14:26 Type: N Check: 7111 ..
abf79565

Query Match          55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 90;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2745 AAAATTCCTTTT 2755
      |||||
Db 3 AAAATTCCTTTT 13

RESULT 86
abf85966/c
TOIG of: abf85966 check: 6680 from: 1 to: 13

; ID ABR85966 standard; DNA; 13 BP.
; XX
; AC ABR85966;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 185963 for detecting SNP TSC0045828.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIDENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; PS Claim 1; SEQ ID 185963; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABR00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; CC
; XX Sequence 13 BP; 8 A; 0 C; 2 G; 2 T; 1 other;
; SQ
; ABR85966 Length: 13 September 17, 2003 14:26 Type: N Check: 6680 ..
abf85966

Query Match          55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 90;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
OY 2747 AATTCCTTCT 2757
      |||||
Db 11 AATTCCTTCT 1

RESULT 87
abf85967
TOIG of: abf85967 check: 7186 from: 1 to: 13

; ID ABR85967 standard; DNA; 13 BP.
; XX
; AC ABR85967;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 185964 for detecting SNP TSC0045828.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIDENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; PS Claim 1; SEQ ID 185964; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABR00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; CC
; XX Sequence 13 BP; 2 A; 2 C; 0 G; 8 T; 1 other;
; SQ
; ABR85967 Length: 13 September 17, 2003 14:26 Type: N Check: 7186 ..
abf85967

Query Match          55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 90;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2747 AATTCCTTCT 2757
      |||||
Db 3 AATTCCTTCT 13

RESULT 88
abf97716/c
```

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; TOIG of: abf97716 check: 6832 from: 1 to: 13
; ID ABE97716 standard; DNA; 13 BP.
; XX ABE97716;
; AC ABE97716;
; XX 22-FEB-2002 (first entry)
; DT
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; XX (EPIC-) EPIGENOMICS AG.
; PA
; PI Olek A, Piepenbrock C, Berlin K;
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; PS Claim 1; SEQ ID 197713; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABE00010-ABE99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; CC
; XX Sequence 13 BP; 6 A; 0 C; 1 G; 6 T; 0 other;
; SQ
; ABE97716 Length: 13 September 17, 2003 14:26 Type: N Check: 6832 ..
; abf97716
;
; Query Match 55.0%; Score 11; DB 1; Length 13;
; Best Local Similarity 100.0%; Pred. No. 90;
; Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
;
; OY 2743 ATAAATTCCTT 2753
; DB 12 ATAAATTCCTT 2
;
; RESULT 89
; abf97717
; TOIG of: abf97717 check: 6771 from: 1 to: 13
; ID ABE97717 standard; DNA; 13 BP.
; XX
; AC ABE97717;
; XX
; DT 22-FEB-2002 (first entry)
; OS Homo sapiens.

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```

; DE Oligonucleotide SEQ ID NO 197714 for detecting SNP TSC0048658.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; XX (EPIC-) EPIGENOMICS AG.
; PA
; PI Olek A, Piepenbrock C, Berlin K;
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; PS Claim 1; SEQ ID 197714; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABE00010-ABE99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; CC
; XX Sequence 13 BP; 6 A; 1 C; 0 G; 6 T; 0 other;
; SQ
; ABE97717 Length: 13 September 17, 2003 14:26 Type: N Check: 6771 ..
; abf97717
;
; Query Match 55.0%; Score 11; DB 1; Length 13;
; Best Local Similarity 100.0%; Pred. No. 90;
; Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
;
; OY 2743 ATAAATTCCTT 2753
; DB 2 ATAAATTCCTT 12
;
; RESULT 90
; abh00102/c
; TOIG of: abh00102 check: 7060 from: 1 to: 13
; ID ABH00102 standard; DNA; 13 BP.
; XX
; AC ABH00102;
; XX
; DT 22-FEB-2002 (first entry)
; OS Homo sapiens.
; DE Oligonucleotide SEQ ID NO 200079 for detecting SNP TSC0049233.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; XX

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; PN WO200177384-A2.
; XX 18-OCT-2001.
; PD 06-APR-2001; 2001WO-IB00713.
; XX 07-APR-2000; 2000DE-1019173.
; PR (EPIC-) EPIGENOMICS AG.
; PA Olek A, Piepenbrock C, Berlin K;
; PI WPI; 2001-657177/75.
; DR WPI; 2001-657177/75.
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; PS Claim 1; SEQ ID 200079; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 6 A; 0 C; 2 G; 4 T; 1 other;
; ABH00102 Length: 13 September 17, 2003 14:26 Type: N Check: 7060 ..
; abh00102

Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 90;
Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 2745 AAAATCTTTCT 2757
Db 13 RAATACCTTTCT 1

RESULT 91
abh00103
; TOIC of: abh00103 check: 7034 from: 1 to: 13
; ID ABH00103 standard; DNA; 13 BP.
; XX ABH00103;
; AC ABH00103;
; XX 22-FEB-2002 (first entry)
; DT Oligonucleotide SEQ ID NO 200080 for detecting SNP TSC0049323.
; DE SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX 18-OCT-2001.
; PD 06-APR-2001; 2001WO-IB00713.
; PF 07-APR-2000; 2000DE-1019173.
; PR
; XX
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; PA (EPIC-) EPIGENOMICS AG.
; XX Olek A, Piepenbrock C, Berlin K;
; PI WPI; 2001-657177/75.
; DR WPI; 2001-657177/75.
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; PS Claim 1; SEQ ID 200080; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 4 A; 2 C; 0 G; 6 T; 1 other;
; ABH00103 Length: 13 September 17, 2003 14:26 Type: N Check: 7034 ..
; abh00103

Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 90;
Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 2745 AAAATCTTTCT 2757
Db 1 RAATACCTTTCT 13

RESULT 92
abh00464
; TOIC of: abh00464 check: 7044 from: 1 to: 13
; ID ABH00464 standard; DNA; 13 BP.
; XX ABH00464;
; AC ABH00464;
; XX 22-FEB-2002 (first entry)
; DT Oligonucleotide SEQ ID NO 200441 for detecting SNP TSC0049322.
; DE SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX 18-OCT-2001.
; PD 06-APR-2001; 2001WO-IB00713.
; PF 07-APR-2000; 2000DE-1019173.
; PR
; XX
; PA (EPIC-) EPIGENOMICS AG.
; XX Olek A, Piepenbrock C, Berlin K;
; PI WPI; 2001-657177/75.
; DR WPI; 2001-657177/75.
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
```



```

; PT methylation status -
; PS Claim 1: SEQ ID 200441; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989 and
; CC AB100010-AB102073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; CC
; XX Sequence 13 BP; 7 A; 0 C; 0 G; 5 T; 1 other:
; ABH00464 Length: 13 September 17, 2003 14:26 Type: N Check: 7044 ..
; abh00464
;
; Query Match 55.0%; Score 11; DB 1; Length 13;
; Best Local Similarity 84.6%; Pred. No. 90;
; Matches 11; Conservative 1; Mismatches 0; Gaps 0;
;
; QY 2742 AATTAATTCCTT 2754
; Db 1 AATTAATTCCTT 13
;
; RESULT 93
; abh00465/c
; TOIG of: abh00465 check: 7129 from: 1 to: 13
;
; ID ABH00465 standard; DNA: 13 BP.
; XX
; AC ABH00465;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 200442 for detecting SNP TSC0049322.
; XX
; SNF: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO20017384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PE 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI: 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1: SEQ ID 200442; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989 and
; CC AB100010-AB102073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.

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; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989 and
; CC AB100010-AB102073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; CC
; XX Sequence 13 BP; 5 A; 0 C; 0 G; 7 T; 1 other:
; ABH00465 Length: 13 September 17, 2003 14:26 Type: N Check: 7129 ..
; abh00465
;
; Query Match 55.0%; Score 11; DB 1; Length 13;
; Best Local Similarity 84.6%; Pred. No. 90;
; Matches 11; Conservative 1; Mismatches 0; Gaps 0;
;
; QY 2742 AATTAATTCCTT 2754
; Db 13 AATTAATTCCTT 1
;
; RESULT 94
; abh30780/c
; TOIG of: abh30780 check: 7015 from: 1 to: 13
;
; ID ABH30780 standard; DNA: 13 BP.
; XX
; AC ABH30780;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 230757 for detecting SNP TSC0056273.
; XX
; SNF: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO20017384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PE 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI: 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1: SEQ ID 230757; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989 and
; CC AB100010-AB102073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.

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XX Sequence 13 BP; 6 A; 0 C; 1 G; 6 T; 0 other;
ABH30780 Length: 13 September 17, 2003 14:26 Type: N Check: 7015
abh30780

Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 90;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2745 AAAATTCCTTT 2755
|||||
Db 12 AAAATTCCTTT 2

RESULT 95
abh30781
TOIG of: abh30781 check: 6976 from: 1 to: 13

ID ABH30781 standard; DNA; 13 BP.

AC ABH30781;

DT 22-FEB-2002 (first entry)

DE Oligonucleotide SEQ ID NO 230758 for detecting SNP TSC0056273.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;

KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

KM central nervous system; gastrointestinal; respiratory; immune; metabolic.

OS Homo sapiens.

PN WO200177384-A2.

PD 18-OCT-2001.

PF 06-APR-2001; 2001WO-IB00713.

PR 07-APR-2000; 2000DE-1019173.

PA (EPIC-) EPIGENOMICS AG.

PI Olek A, Piepenbrock C, Berlin K;

PT WPI; 2001-657177/75.

PT Set of oligonucleotides, useful for diagnosis and cell typing, is

PT designed to detect single nucleotide polymorphisms and cytosine

PT methylation status -

XX Claim 1; SEQ ID 230758; 29pp + sequence listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic

XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)

XX and cytosine methylation status in chemically pretreated genomic DNA. The

XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a

XX range of diseases including immune system, gastrointestinal, respiratory,

XX central nervous system, cardiovascular and metabolic disorders. The

XX oligomers are also used for detecting cell type differentiation.

XX ABC00010-ABG99989, ABR00010-ABF99989, ABH00010-ABH99989 and

XX ABH00010-ABH82073 represent the oligomers described in the invention.

XX NOTE: The sequence data for this patent did not form part of the printed

XX specification, but was obtained in electronic format from WIPO at

XX ftp.wipo.int/pub/published_pct_sequences.

XX SQ Sequence 13 BP; 6 A; 1 C; 0 G; 6 T; 0 other;

XX ABH30781 Length: 13 September 17, 2003 14:26 Type: N Check: 6976 ..

XX Query Match 55.0%; Score 11; DB 1; Length 13;

XX Best Local Similarity 100.0%; Pred. No. 90;

XX Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

XX OY 2740 TCAATTAATTT 2750

XX |||||||

XX Db 13 TCAATTAATTT 3

XX RESULT 97

Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 2745 AAAATTCCTTT 2755
|||||
Db 2 AAAATTCCTTT 12

RESULT 96
abh49596/c
TOIG of: abh49596 check: 6886 from: 1 to: 13

ID ABH49596 standard; DNA; 13 BP.

AC ABH49596;

DT 22-FEB-2002 (first entry)

DE Oligonucleotide SEQ ID NO 249573 for detecting SNP TSC0060967.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;

KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

KM central nervous system; gastrointestinal; respiratory; immune; metabolic.

OS Homo sapiens.

PN WO200177384-A2.

PD 18-OCT-2001.

PF 06-APR-2001; 2001WO-IB00713.

PR 07-APR-2000; 2000DE-1019173.

PA (EPIC-) EPIGENOMICS AG.

PI Olek A, Piepenbrock C, Berlin K;

PT WPI; 2001-657177/75.

PT Set of oligonucleotides, useful for diagnosis and cell typing, is

PT designed to detect single nucleotide polymorphisms and cytosine

PT methylation status -

XX Claim 1; SEQ ID 249573; 29pp + sequence listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic

XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)

XX and cytosine methylation status in chemically pretreated genomic DNA. The

XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a

XX range of diseases including immune system, gastrointestinal, respiratory,

XX central nervous system, cardiovascular and metabolic disorders. The

XX oligomers are also used for detecting cell type differentiation.

XX ABC00010-ABG99989, ABR00010-ABF99989, ABH00010-ABH99989 and

XX ABH00010-ABH82073 represent the oligomers described in the invention.

XX NOTE: The sequence data for this patent did not form part of the printed

XX specification, but was obtained in electronic format from WIPO at

XX ftp.wipo.int/pub/published_pct_sequences.

XX SQ Sequence 13 BP; 5 A; 0 C; 2 G; 6 T; 0 other;

XX ABH49596 Length: 13 September 17, 2003 14:26 Type: N Check: 6886 ..

XX Query Match 55.0%; Score 11; DB 1; Length 13;

XX Best Local Similarity 100.0%; Pred. No. 90;

XX Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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abH49597
; TOIG of: abH49597 check: 6686 from: 1 to: 13
; ID ABH49597 standard; DNA; 13 BP.
; XX ABH49597;
; AC ABH49597;
; XX
; XX
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 249574 for detecting SNP TSC0060967.
; XX
; XX SNP; single nucleotide polymorphism; human; diagnosis: PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; XX WO200177384-A2.
; XX
; XX 18-OCT-2001.
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; XX
; XX 07-APR-2000; 2000DE-1019173.
; XX
; XX (EPIG-) EPIGENOMICS AG.
; XX
; XX Olek A. Plepenbrock C, Berlin K;
; XX
; XX WPI: 2001-657177/75.
; XX
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; XX Claim 1: SEQ ID 249574; 29pp + Sequence Listing; German.
; XX
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABI00010-ABI82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; XX Sequence 13 BP; 6 A; 2 C; 0 G; 5 T; 0 other;
; ABH49597 Length: 13 September 17, 2003 14:26 Type: N Check: 6686 ..
abH49597

Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 90;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2740 TCATATAAATT 2750
Db 1 TCATATAAATT 11

RESULT 98
abH44486/c
; TOIG of: abH44486 check: 6796 from: 1 to: 13
; ID ABH44486 standard; DNA; 13 BP.
; XX
; XX ABH44486;
; XX
; XX 22-FEB-2002 (first entry)
; DT

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; XX Oligonucleotide SEQ ID NO 264463 for detecting SNP TSC0064088.
; DE
; XX
; XX SNP; single nucleotide polymorphism; human; diagnosis: PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; XX WO200177384-A2.
; XX
; XX 18-OCT-2001.
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; XX
; XX 07-APR-2000; 2000DE-1019173.
; XX
; XX (EPIG-) EPIGENOMICS AG.
; XX
; XX Olek A. Plepenbrock C, Berlin K;
; XX
; XX WPI: 2001-657177/75.
; XX
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; XX Claim 1: SEQ ID 264463; 29pp + Sequence Listing; German.
; XX
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABI00010-ABI82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; XX Sequence 13 BP; 3 A; 0 C; 4 G; 6 T; 0 other;
; ABH44486 Length: 13 September 17, 2003 14:26 Type: N Check: 6796 ..
abH44486

Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 90;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2739 CTCATATAAAT 2749
Db 12 CTCATATAAAT 2

RESULT 99
abH44487
; TOIG of: abH44487 check: 6373 from: 1 to: 13
; ID ABH44487 standard; DNA; 13 BP.
; XX
; XX ABH44487;
; XX
; XX 22-FEB-2002 (first entry)
; DT
; DE Oligonucleotide SEQ ID NO 264464 for detecting SNP TSC0064088.
; XX
; XX SNP; single nucleotide polymorphism; human; diagnosis: PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.

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; XX WO200177384-A2.
; PN
; PA
; PI
; PD 18-OCT-2001.
; PE
; PF 06-APR-2001; 2001WO-IB00713.
; PG
; PH 07-APR-2000; 2000DE-1019173.
; PI
; PA (EPIC-) EPIGENOMICS AG.
; PI
; PI Olek A, Piepenbrock C, Berlin K;
; XX WPI; 2001-657177/75.
; DR
; DR
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; PS
; PS Claim 1; SEQ ID 264464; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system and metabolic disorders. The
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; CC
; XX
; SQ Sequence 13 BP; 6 A; 4 C; 0 G; 3 T; 0 other;
; ABH64487 Length: 13 September 17, 2003 14:26 Type: N Check: 6373 ..
; abh64487
Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 90;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2739 CTCATTAATAAT 2749
Db 2 CTCATTAATAAT 12
RESULT 100
abh66668/G
; TOIG of: abh66668 check: 7093 from: 1 to: 13
; ID ABH66668 standard; DNA; 13 BP.
; XX
; XX ABH66668;
; AC
; XX
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 266645 for detecting SNP TSC0064610.
; XX
; XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX Homo sapiens.
; OS
; XX WO200177384-A2.
; PN
; PD 18-OCT-2001.
; PE
; PF 06-APR-2001; 2001WO-IB00713.
; PG
; PH 07-APR-2000; 2000DE-1019173.
; PI
; PI
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; XX (EPIC-) EPIGENOMICS AG.
; PA
; PI
; PI Olek A, Piepenbrock C, Berlin K;
; XX WPI; 2001-657177/75.
; DR
; DR
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; PS
; PS Claim 1; SEQ ID 266645; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system and metabolic disorders. The
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; CC
; XX
; SQ Sequence 13 BP; 6 A; 0 C; 1 G; 5 T; 1 other;
; ABH66668 Length: 13 September 17, 2003 14:26 Type: N Check: 7093 ..
; abh66668
Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 90;
Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
QY 2743 ATAAATCTTCTT 2755
Db 13 ATAAATCTTCTT 1
RESULT 101
abh66669
; TOIG of: abh66669 check: 6995 from: 1 to: 13
; ID ABH66669 standard; DNA; 13 BP.
; XX
; XX ABH66669;
; AC
; XX
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 266646 for detecting SNP TSC0064610.
; XX
; XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX Homo sapiens.
; OS
; XX WO200177384-A2.
; PN
; PD 18-OCT-2001
; PE
; PF 06-APR-2001; 2001WO-IB00713.
; PG
; PH 07-APR-2000; 2000DE-1019173.
; PI
; PI (EPIC-) EPIGENOMICS AG.
; PI
; PI Olek A, Piepenbrock C, Berlin K;
; XX WPI; 2001-657177/75.
; DR
; DR Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT
```

```
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX Claim 1; SEQ ID 266646; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX AB000010-ABC99989, ABF00010-ABF99989 and
XX CC AB100010-AB182073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pcr_sequences.
XX
XX Sequence 13 BP; 5 A; 1 C; 0 G; 6 T; 1 other;
XX
XX ABH66669 Length: 13 September 17, 2003 14:26 Type: N Check: 6995 ..
abn66669

Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 84.0%; Pred. No. 90;
Matches 11; Conservative 1; Mismatches 0; Gaps 0;
Indels 0;

QY 2743 ATAAATCTTTT 2755
Db 1 RTAAATCTTTT 13

RESULT 103
abc20140/
TOIG of: abc20140 check: 7068 from: 1 to: 13
XX ID ABC20140 standard; DNA; 13 BP.
XX AC ABC20140
XX
XX 20-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 20157 for detecting SNP TSC0004135.
XX
XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPIC-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status -
XX
XX Claim 1; SEQ ID 20157; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX AB000010-ABC99989, ABF00010-ABF99989 and
XX CC AB100010-AB182073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
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```
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC AB000010-ABC99989, ABF00010-ABF99989 and
CC AB100010-AB182073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pcr_sequences.
CC
CC Sequence 13 BP; 2 A; 0 C; 3 G; 7 T; 1 other;
CC
CC ABC20140 Length: 13 September 17, 2003 14:26 Type: N Check: 7068 ..
abc20140

Query Match 53.0%; Score 10.6; DB 1; Length 13;
Best Local Similarity 90.9%; Pred. No. 1.1e+02;
Matches 10; Conservative 1; Mismatches 0; Gaps 0;
Indels 0;

QY 2738 GCTCAATTAATA 2748
Db 13 RCTCAATTAATA 3

RESULT 103
abc20141
TOIG of: abc20141 check: 6160 from: 1 to: 13
XX ID ABC20141 standard; DNA; 13 BP.
XX AC ABC20141;
XX
XX 20-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 20158 for detecting SNP TSC0004135.
XX
XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPIC-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status -
XX
XX Claim 1; SEQ ID 20158; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX AB000010-ABC99989, ABF00010-ABF99989 and
XX CC AB100010-AB182073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
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CC ftp.wipo.int/pub/published_pct_sequences.
XX Sequence 13 BP; 7 A; 3 C; 0 G; 2 T; 1 other;
SQ ABC20141 Length: 13 September 17, 2003 14:26 Type: N Check: 6160
abc20141
```

```
Query Match 53.0%; Score 10.6; DB 1; Length 13;
Best Local Similarity 90.9%; Pred. No. 1.1e+02;
Matches 10; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
OY 2738 GGCATATATAA 2748
Db 1 RCTCATATATAA 11
```

```
RESULT 104
abc49836/c
TOIG of: abc49836 check: 6915 from: 1 to: 13
```

```
ID ABC49836 standard; DNA: 13 BP.
XX ABC49836;
AC
XX
XX 21-FEB-2002 (first entry)
DE Oligonucleotide SEQ ID NO 49853 for detecting SNP TSC0014061.
```

```
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
```

```
XX Homo sapiens.
XX WO200177384-A2.
```

```
XX 18-OCT-2001.
```

```
XX 06-APR-2001; 2001WO-IB00713.
```

```
XX 07-APR-2000; 2000DE-1019173.
```

```
XX (EPIC-) EPIGENOMICS AG.
```

```
XX Olek A, Piepenbrock C, Berlin K;
```

```
XX WPI; 2001-657177/75.
```

```
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status -
```

```
XX Claim 1; SEQ ID 49853; 29pp + Sequence Listing; German.
```

```
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC99989, ABR00010-ABR99989, ABH00010-ABH99989 and
XX ABR00010-ABR99989, ABR00010-ABR99989, ABH00010-ABH99989 and
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
```

```
XX Sequence 13 BP; 7 A; 0 C; 1 G; 4 T; 1 other;
```

```
ABC49836 Length: 13 September 17, 2003 14:26 Type: N Check: 6915
abc49836
```

```
Query Match 53.0%; Score 10.6; DB 1; Length 13;
```

```
Best Local Similarity 90.9%; Pred. No. 1.1e+02;
Matches 10; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
OY 2745 AAAATTCCTTT 2755
Db 13 RAAATTCCTTT 3
```

```
RESULT 105
abc49837
TOIG of: abc49837 check: 7105 from: 1 to: 13
```

```
ID ABC49837 standard; DNA: 13 BP.
XX ABC49837;
AC
XX
XX 21-FEB-2002 (first entry)
```

```
DE Oligonucleotide SEQ ID NO 49854 for detecting SNP TSC0014061.
```

```
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
```

```
XX Homo sapiens.
```

```
XX WO200177384-A2.
```

```
XX 18-OCT-2001.
```

```
XX 06-APR-2001; 2001WO-IB00713.
```

```
XX 07-APR-2000; 2000DE-1019173.
```

```
XX (EPIC-) EPIGENOMICS AG.
```

```
XX Olek A, Piepenbrock C, Berlin K;
```

```
XX WPI; 2001-657177/75.
```

```
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status -
```

```
XX Claim 1; SEQ ID 49854; 29pp + Sequence Listing; German.
```

```
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC99989, ABR00010-ABR99989, ABH00010-ABH99989 and
XX ABR00010-ABR99989, ABR00010-ABR99989, ABH00010-ABH99989 and
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
```

```
XX Sequence 13 BP; 4 A; 1 C; 0 G; 7 T; 1 other;
```

```
ABC49837 Length: 13 September 17, 2003 14:26 Type: N Check: 7105
abc49837
```

```
Query Match 53.0%; Score 10.6; DB 1; Length 13;
Best Local Similarity 90.9%; Pred. No. 1.1e+02;
Matches 10; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
OY 2745 AAAATTCCTTT 2755
Db 1 RAAATTCCTTT 11
```

```
RESULT 106
abc84986/c
: TOIG of: abc84986 check: 7010 from: 1 to: 13
: ID ABc84986 standard; DNA; 13 BP.
: AC ABc84986;
: XX
: DT 21-FEB-2002 (first entry)
: XX
: DE Oligonucleotide SEQ ID NO 85003 for detecting SNP TSC0021381.
: XX
: KM SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
: KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
: XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
: OS Homo sapiens.
: XX
: PN WO200177384-A2.
: PD 18-OCT-2001.
: PF 06-APR-2001; 2001WO-1B00713.
: PR 07-APR-2000; 2000DE-1019173.
: PA (EPIC-) EPIGENOMICS AG.
: XX
: PI Olek A, Piepenbrock C, Berlin K;
: XX
: DR WPI; 2001-657177/75.
: XX
: PT Set of oligonucleotides, useful for diagnosis and cell typing, is
: PT designed to detect single nucleotide polymorphisms and cytosine
: PT methylation status
: XX
: PS Claim 1; SEQ ID 85003; 29pp + Sequence listing; German.
: XX
: CC This invention describes novel oligonucleotide primers or peptide nucleic
: CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
: CC and cytosine methylation status in chemically pretreated genomic DNA. The
: CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
: CC range of diseases including immune system, gastrointestinal, respiratory,
: CC central nervous system, cardiovascular and metabolic disorders. The
: CC oligomers are also used for detecting cell type differentiation.
: CC ABC00010-ABc84986, ABF00010-ABF99989, ABH00010-ABH99989 and
: CC ABH00010-ABH82073 represent the oligomers described in the invention.
: CC NOTE: The sequence data for this patent did not form part of the printed
: CC specification, but was obtained in electronic format from WIPO at
: CC ftp.wipo.int/pub/published_pct_sequences.
: XX
: SQ Sequence 13 BP; 5 A; 0 C; 2 G; 5 T; 1 other;
:
: ABC84986 Length: 13 September 17, 2003 14:26 Type: N Check: 7010 ..
abc84986

Query Match 53.0%; Score 10.6; DB 1; Length 13;
Best Local Similarity 90.9%; Pred. No. 1.1e+02;
Matches 10; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 2743 ATAAATTCCTT 2753
Db 13 RTAAATTCCTT 3

RESULT 107
abc84987/c
: TOIG of: abc84987 check: 6696 from: 1 to: 13
: ID ABC84987 standard; DNA; 13 BP.
: AC ABC84987;
: XX
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```
: DT 21-FEB-2002 (first entry)
: XX
: DE Oligonucleotide SEQ ID NO 85004 for detecting SNP TSC0021381.
: XX
: KM SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
: KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
: XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
: OS Homo sapiens.
: XX
: PN WO200177384-A2.
: PD 18-OCT-2001.
: PF 06-APR-2001; 2001WO-1B00713.
: PR 07-APR-2000; 2000DE-1019173.
: PA (EPIC-) EPIGENOMICS AG.
: XX
: PI Olek A, Piepenbrock C, Berlin K;
: XX
: DR WPI; 2001-657177/75.
: XX
: PT Set of oligonucleotides, useful for diagnosis and cell typing, is
: PT designed to detect single nucleotide polymorphisms and cytosine
: PT methylation status
: XX
: PS Claim 1; SEQ ID 85004; 29pp + Sequence listing; German.
: XX
: CC This invention describes novel oligonucleotide primers or peptide nucleic
: CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
: CC and cytosine methylation status in chemically pretreated genomic DNA. The
: CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
: CC range of diseases including immune system, gastrointestinal, respiratory,
: CC central nervous system, cardiovascular and metabolic disorders. The
: CC oligomers are also used for detecting cell type differentiation.
: CC ABC00010-ABc84987, ABF00010-ABF99989, ABH00010-ABH99989 and
: CC ABH00010-ABH82073 represent the oligomers described in the invention.
: CC NOTE: The sequence data for this patent did not form part of the printed
: CC specification, but was obtained in electronic format from WIPO at
: CC ftp.wipo.int/pub/published_pct_sequences.
: XX
: SQ Sequence 13 BP; 5 A; 2 C; 0 G; 5 T; 1 other;
:
: ABC84987 Length: 13 September 17, 2003 14:26 Type: N Check: 6696 ..
abc84987

Query Match 53.0%; Score 10.6; DB 1; Length 13;
Best Local Similarity 90.9%; Pred. No. 1.1e+02;
Matches 10; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 2743 ATAAATTCCTT 2753
Db 1 RTAAATTCCTT 11

RESULT 108
abf41664/c
: TOIG of: abf41664 check: 7081 from: 1 to: 13
: ID ABf41664 standard; DNA; 13 BP.
: AC ABf41664;
: XX
: DT 21-FEB-2002 (first entry)
: XX
: DE Oligonucleotide SEQ ID NO 141661 for detecting SNP TSC0035491.
: XX
: KM SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
: KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
: XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
```

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; OS Homo sapiens.
; XX WO200177384-A2.
; XX 18-OCT-2001.
; XX 06-APR-2001; 2001WO-IB00713.
; XX 07-APR-2000; 2000DE-1019173.
; XX (EPIC-) EPIGENOMICS AG.
; XX Olek A, Piepenbrock C, Berlin K;
; XX WPI; 2001-65717/75.
; DR Set of oligonucleotides, useful for diagnosis and cell typing, is
; XX designed to detect single nucleotide polymorphisms and cytosine
; XX methylation status
; XX Claim 1; SEQ ID 141661; 29pp + Sequence Listing; German.
; PS This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX Sequence 13 BP; 2 A; 0 C; 2 G; 8 T; 1 other;
; ABFA1664 Length: 13 September 17, 2003 14:26 Type: N Check: 7081 ..
; abf41664

Query Match          53.0%; Score 10.6; DB 1; Length 13;
Best Local Similarity 90.9%; Pred. No. 1.1e+02;
Matches 10; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2738 GCTCAATATAA 2748
DB 13 RCTCAATATAA 3

RESULT 109
; abf41665 check: 6134 from: 1 to: 13
; TOIG of: abf41665 standard; DNA; 13 BP.
; ID ABFA1665 standard; DNA; 13 BP.
; AC ABFA1665;
; XX 21-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 141662 for detecting SNP TSC0035491.
; XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; XX WO200177384-A2.
; XX 18-OCT-2001.
; XX 06-APR-2001; 2001WO-IB00713.
; XX

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; PR 07-APR-2000; 2000DE-1019173.
; XX (EPIC-) EPIGENOMICS AG.
; XX Olek A, Piepenbrock C, Berlin K;
; XX WPI; 2001-65717/75.
; DR Set of oligonucleotides, useful for diagnosis and cell typing, is
; XX designed to detect single nucleotide polymorphisms and cytosine
; XX methylation status
; XX Claim 1; SEQ ID 141662; 29pp + Sequence Listing; German.
; PS This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX Sequence 13 BP; 8 A; 2 C; 0 G; 2 T; 1 other;
; ABFA1665 Length: 13 September 17, 2003 14:26 Type: N Check: 6134 ..
; abf41665

Query Match          53.0%; Score 10.6; DB 1; Length 13;
Best Local Similarity 90.9%; Pred. No. 1.1e+02;
Matches 10; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2738 GCTCAATATAA 2748
DB 1 RCTCAATATAA 11

RESULT 110
; abh67826/c check: 6177 from: 1 to: 12
; TOIG of: abh67826 standard; DNA; 12 BP.
; ID ABH67826 standard; DNA; 12 BP.
; AC ABH67826;
; XX 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 267803 for detecting SNP TSC000544.
; XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; XX WO200177384-A2.
; XX 18-OCT-2001.
; XX 06-APR-2001; 2001WO-IB00713.
; XX 07-APR-2000; 2000DE-1019173.
; XX (EPIC-) EPIGENOMICS AG.
; XX Olek A, Piepenbrock C, Berlin K;
; XX WPI; 2001-65717/75.
; XX

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; PR Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PS methylation status
; XX
; PS Claim 1; SEQ ID 267803; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABG9989, ABF00010-ABF9989, ABH00010-ABH9989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; XX
; SQ Sequence 12 BP; 5 A; 0 C; 1 G; 6 T; 0 other;
; ABH67826 Length: 12 September 17, 2003 14:26 Type: N Check: 6177 ..
; abh67826
;
; Query Match 52.0%; Score 10.4; DB 1; Length 12;
; Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; QY 2743 ATAAATCTTCTT 2754
; Db 12 AAAAATCTTCTT 1
;
; RESULT 111
; abh68859
; TOIG of: abh68859 check: 5830 from: 1 to: 12
; ID ABH68859 standard; DNA; 12 BP.
; XX
; AC ABH68859;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 268836 for detecting SNP TSC0001449.
; XX
; SNF: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-1B00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 268836; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
```

```

; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABG9989, ABF00010-ABF9989, ABH00010-ABH9989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; XX
; SQ Sequence 12 BP; 5 A; 2 C; 0 G; 5 T; 0 other;
; ABH68859 Length: 12 September 17, 2003 14:26 Type: N Check: 5830 ..
; abh68859
;
; Query Match 52.0%; Score 10.4; DB 1; Length 12;
; Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; QY 2745 AAAATCTTCTTTC 2756
; Db 1 AAAATCTTCTTTC 12
;
; RESULT 112
; abh70875/c
; TOIG of: abh70875 check: 5943 from: 1 to: 12
; ID ABH70875 standard; DNA; 12 BP.
; XX
; AC ABH70875;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 270852 for detecting SNP TSC0002300.
; XX
; SNF: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-1B00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 270852; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABG9989, ABF00010-ABF9989, ABH00010-ABH9989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
```

```
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 12 BP; 6 A; 0 C; 1 G; 5 T; 0 other;
ABH70875 Length: 12 September 17, 2003 14:26 Type: N Check: 5943 ..
abh70875

Query Match      52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2742 AATAAATTCCT 2753
Db 12 AATAAATTCCT 1

RESULT 113
abh71007/c
TOIG of: abh71007 check: 5561 from: 1 to: 12
ID ABH71007 standard; DNA; 12 BP.
XX
AC ABH71007:
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide primer SEQ ID NO 270984 for detecting SNP TSC0002347.
XX
SNP: single nucleotide polymorphism; human; diagnosis: PNA; cancer: CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer: ss;
KW central nervous system; gastrointestinal; respiratory; Immune; metabolic.
XX
Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PE 06-APR-2001; 2001WO-IB00713.
XX
PR 07-APR-2000; 2000DE-1019173.
XX
PA (EPIG-) EPIGENOMICS AG.
XX
PI Olek A, Plepenbrock C, Berlin K;
XX
PT WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status.
XX
PS Claim 1; SEQ ID 270984; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABH00010-ABH99989 and
CC AB100010-AB182073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 12 BP; 8 A; 0 C; 2 G; 2 T; 0 other;
ABH71007 Length: 12 September 17, 2003 14:26 Type: N Check: 5561 ..
abh71007
```

```
Query Match      52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2746 AATTCCTTCCT 2757
Db 12 AATTCCTTCCT 1

RESULT 114
abh72258/c
TOIG of: abh72258 check: 6285 from: 1 to: 12
ID ABH72258 standard; DNA; 12 BP.
XX
AC ABH72258;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide primer SEQ ID NO 272237 for detecting SNP TSC0002748.
XX
SNP: single nucleotide polymorphism; human; diagnosis: PNA; cancer: CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer: ss;
KW central nervous system; gastrointestinal; respiratory; Immune; metabolic.
XX
Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PE 06-APR-2001; 2001WO-IB00713.
XX
PR 07-APR-2000; 2000DE-1019173.
XX
PA (EPIG-) EPIGENOMICS AG.
XX
PI Olek A, Plepenbrock C, Berlin K;
XX
PT WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status.
XX
PS Claim 1; SEQ ID 272237; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABH00010-ABH99989 and
CC AB100010-AB182073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 12 BP; 4 A; 0 C; 1 G; 7 T; 0 other;
ABH72258 Length: 12 September 17, 2003 14:26 Type: N Check: 6285 ..
abh72258

Query Match      52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2742 AATAAATTCCT 2753
Db 12 AATAAATTCCT 1
```

```

RESULT 115
abht5304
; TOIG of: abht5304 check: 6020 from: 1 to: 12
; ID ABH75304 standard; DNA; 12 BP.
; XX
; AC ABH75304;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 275295 for detecting SNP TSC0003854.
; XX
; DE SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PE 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPiG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 275295; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABH9989, ABF00010-ABP9989, ABH00010-ABH9989 and
; CC ABT00010-ABH82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 6 A; 0 C; 0 G; 6 T; 0 other;
; ABH75304 Length: 12 September 17, 2003 14:26 Type: N Check: 6020 ..
abht5304

Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 2743 ATAAATTCCTT 2754
Db 1 ATAAATTCCTT 12

RESULT 116
abht8349/c
; TOIG of: abht8349 check: 6083 from: 1 to: 12
; ID ABH78349 standard; DNA; 12 BP.
; XX
; AC ABH78349;

```

```

; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 278342 for detecting SNP TSC0005913.
; XX
; DE SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PE 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPiG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 278342; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABH9989, ABF00010-ABP9989, ABH00010-ABH9989 and
; CC ABT00010-ABH82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 5 A; 1 C; 0 G; 6 T; 0 other;
; ABH78349 Length: 12 September 17, 2003 14:26 Type: N Check: 6083 ..
abht8349

Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 2742 ATAAATTCCTT 2753
Db 12 ATAAATTCCTT 1

RESULT 117
abht9446
; TOIG of: abht9446 check: 6050 from: 1 to: 12
; ID ABH79446 standard; DNA; 12 BP.
; XX
; AC ABH79446;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 279439 for detecting SNP TSC0007377.
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.

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```

; XX Homo sapiens.
; OS
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PE 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPiG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; PS
; XX Claim 1; SEQ ID 279439; 29pp + Sequence listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-AB099989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABT00010-ABT99989 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; CC
; XX Sequence 12 BP; 4 A; 2 C; 0 G; 6 T; 0 other;
; SQ
; ABH79446 Length: 12 September 17, 2003 14:26 Type: N Check: 6050 ..
; abh79446

Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2743 ATAAATTCCTT 2754
DB 1 ATAACTCTCTT 12

RESULT 118
abh81016/c check: 5792 from: 1 to: 12
; TOIG of: abh81016 standard; DNA; 12 BP.
; ID ABH81016 standard; DNA; 12 BP.
; XX
; AC ABH81016;
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 281009 for detecting SNP TSC0009306.
; XX
; SNF; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PE 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPiG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; PS
; XX Claim 1; SEQ ID 281009; 29pp + Sequence listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-AB099989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABT00010-ABT99989 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; CC
; XX Sequence 12 BP; 4 A; 2 C; 0 G; 6 T; 0 other;
; SQ
; ABH79446 Length: 12 September 17, 2003 14:26 Type: N Check: 6050 ..
; abh79446
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; XX 07-APR-2000; 2000DE-1019173.
; PR (EPiG-) EPIGENOMICS AG.
; XX
; PA Olek A, Piepenbrock C, Berlin K;
; PD WPI; 2001-657177/75.
; PE
; PR Set of oligonucleotides, useful for diagnosis and cell typing, is
; PR designed to detect single nucleotide polymorphisms and cytosine
; PR methylation status.
; PS
; XX Claim 1; SEQ ID 281009; 29pp + Sequence listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-AB099989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABT00010-ABT99989 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; CC
; XX Sequence 12 BP; 8 A; 0 C; 0 G; 4 T; 0 other;
; SQ
; ABH81016 Length: 12 September 17, 2003 14:26 Type: N Check: 5792 ..
; abh81016

Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2744 TAAATTCCTT 2755
DB 12 TAAATTTTCTT 1

RESULT 119
abh81374/c check: 5997 from: 1 to: 12
; TOIG of: abh81374 standard; DNA; 12 BP.
; ID ABH81374 standard; DNA; 12 BP.
; XX
; AC ABH81374;
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 281367 for detecting SNP TSC0009689.
; XX
; SNF; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PE 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPiG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; PS
; XX Claim 1; SEQ ID 281009; 29pp + Sequence listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-AB099989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABT00010-ABT99989 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; CC
; XX Sequence 12 BP; 8 A; 0 C; 0 G; 4 T; 0 other;
; SQ
; ABH81016 Length: 12 September 17, 2003 14:26 Type: N Check: 5792 ..
; abh81016
```

```

; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 281367; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; CC
; XX Sequence 12 BP; 4 A; 2 G; 0 G; 6 T; 0 other;
; SQ
; ABH81374 Length: 12 September 17, 2003 14:26 Type: N Check: 5997
; abh81374

Query Match          52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2746 AATTCCTTCT 2757
DB 1 AATTCCTTCT 12

RESULT 120
abh81435
; TOIG of: abh81435 check: 6134 from: 1 to: 12
; ID ABH81435 standard; DNA; 12 BP.
; XX
; AC ABH81435;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 281428 for detecting SNP TSC0009749.
; XX
; SNF: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; PS WPI: 2001-657177/75.
; XX
; CC Set of oligonucleotides, useful for diagnosis and cell typing, is
; CC designed to detect single nucleotide polymorphisms and cytosine
; CC methylation status
; XX
; PS Claim 1; SEQ ID 281428; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
```

```

; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; CC
; XX Sequence 12 BP; 5 A; 0 G; 0 G; 7 T; 0 other;
; SQ
; ABH81435 Length: 12 September 17, 2003 14:26 Type: N Check: 6134
; abh81435

Query Match          52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2744 TAAATTCCTT 2755
DB 1 TAAATTCCTT 12

RESULT 121
abh82530
; TOIG of: abh82530 check: 6000 from: 1 to: 12
; ID ABH82530 standard; DNA; 12 BP.
; XX
; AC ABH82530;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 282523 for detecting SNP TSC0010851.
; XX
; SNF: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; PS WPI: 2001-657177/75.
; XX
; CC Set of oligonucleotides, useful for diagnosis and cell typing, is
; CC designed to detect single nucleotide polymorphisms and cytosine
; CC methylation status
; XX
; PS Claim 1; SEQ ID 282523; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
```



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RESULT 124
abH88434
; TOIG of: abH88434 check: 5606 from: 1 to: 12
; ID ABH88434 standard; DNA; 12 BP.
; AC ABH88434;
; XX
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 288427 for detecting SNP TSC0013505.
; SNF: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; PS Claim 1; SEQ ID 288427; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABT00010-ABT99989 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; CC
; CC
; CC Sequence 12 BP; 6 A; 3 C; 0 G; 3 T; 0 other:
; SQ
; ABH88434 Length: 12 September 17, 2003 14:26 Type: N Check: 5606 ..
; abH88434
;
; Query Match 52.0%; Score 10.4; DB 1; Length 12;
; Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; OY 2741 CAAATAAATCT 2752
; Db 1 CAAATAAATCT 12
;
; RESULT 125
; abH89438/c
; ; TOIG of: abH89438 check: 6000 from: 1 to: 12
; ; ID ABH89438 standard; DNA; 12 BP.
; ; XX

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```

; AC ABH89438;
; XX
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 289431 for detecting SNP TSC0013933.
; SNF: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; PS Claim 1; SEQ ID 289431; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABT00010-ABT99989 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; CC
; CC
; CC Sequence 12 BP; 3 A; 0 C; 2 G; 7 T; 0 other:
; SQ
; ABH89438 Length: 12 September 17, 2003 14:26 Type: N Check: 6000 ..
; abH89438
;
; Query Match 52.0%; Score 10.4; DB 1; Length 12;
; Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; OY 2739 CTCATAAATCT 2750
; Db 12 CTCATAAATCT 1
;
; RESULT 126
; abH91807/c
; ; TOIG of: abH91807 check: 5857 from: 1 to: 12
; ; ID ABH91807 standard; DNA; 12 BP.
; ; AC ABH91807;
; ; XX
; ; DT 22-FEB-2002 (first entry)
; ; DE Oligonucleotide primer SEQ ID NO 291800 for detecting SNP TSC0014935.
; ; SNF: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; ; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; ; KW

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```

; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX Homo sapiens.
; OS WO200177384-A2.
; PN 18-OCT-2001.
; PD 06-APR-2001; 2001WO-IB00713.
; PF 07-APR-2000; 2000DE-1019173.
; PR (EPIG-) EPIGENOMICS AG.
; PA Olek A, Piepenbrock C, Berlin K;
; PI WPI; 2001-657177/75.
; DR Set of oligonucleotides, useful for diagnosis and cell typing, is
; XX designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; PS Claim 1; SEQ ID 291800; 29pp + Sequence Listing; German.
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AH100010-AH182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences
; XX
; SQ Sequence 12 BP; 5 A; 0 C; 2 G; 5 T; 0 other;
; ABH91807 Length: 12 September 17, 2003 14:26 Type: N Check: 5857 ..
; abh91807

Query Match          52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2741 CATTAAATTTCT 2752
Db 12 CATTAAATTTCT 1

RESULT 127
abh92711/c
; TOIG of: abh92711 check: 6077 from: 1 to: 12
; ID ABH92711 standard; DNA: 12 BP.
; XX
; AC ABH92711;
; XX
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 292704 for detecting SNP TSC0015311.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.

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; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; PN (EPIG-) EPIGENOMICS AG.
; PA Olek A, Piepenbrock C, Berlin K;
; PI WPI; 2001-657177/75.
; DR Set of oligonucleotides, useful for diagnosis and cell typing, is
; XX designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; PS Claim 1; SEQ ID 292704; 29pp + Sequence Listing; German.
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AH100010-AH182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 6 A; 0 C; 0 G; 6 T; 0 other;
; ABH92711 Length: 12 September 17, 2003 14:26 Type: N Check: 6077 ..
; abh92711

Query Match          52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2742 AATAAAATTTCT 2753
Db 12 AATAAAATTTCT 1

RESULT 128
abh93028
; TOIG of: abh93028 check: 5886 from: 1 to: 12
; ID ABH93028 standard; DNA: 12 BP.
; XX
; AC ABH93028;
; XX
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 293021 for detecting SNP TSC0015465.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIG-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; XX

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; DR WPI: 2001-657177/75.
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1: SEQ ID 293021; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABH00010-ABH2073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; CC
; SQ Sequence 12 BP; 6 A; 1 C; 0 G; 5 T; 0 other:
; ABH93028 Length: 12 September 17, 2003 14:26 Type: N Check: 5886 ..
; abh93028

Query Match          52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2743 AATAAATCTTT 2754
    |||||
Db 1 AATAAATCTTT 12

RESULT 129
abh95312/c
; TOIG of: abh95312 check: 5978 from: 1 to: 12
; ID ABH95312 standard; DNA: 12 BP.
; XX
; AC ABH95312
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 295305 for detecting SNP TSC0016530.
; XX
; KW SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-1B00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Plepenbrock C, Berlin K.
; XX
; PS WPI: 2001-657177/75.
; CC Set of oligonucleotides, useful for diagnosis and cell typing, is
; CC designed to detect single nucleotide polymorphisms and cytosine
; CC methylation status
; XX
; PS Claim 1: SEQ ID 295305; 29pp + Sequence Listing; German.

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; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABH00010-ABH2073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; CC
; SQ Sequence 12 BP; 5 A; 0 C; 2 G; 5 T; 0 other:
; ABH95312 Length: 12 September 17, 2003 14:26 Type: N Check: 5978 ..
; abh95312

Query Match          52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2742 AATAAATCTTT 2753
    |||||
Db 12 AATAAATCTTT 1

RESULT 130
abh95466/c
; TOIG of: abh95466 check: 5986 from: 1 to: 12
; ID ABH95466 standard; DNA: 12 BP.
; XX
; AC ABH95466;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 295459 for detecting SNP TSC0016596.
; XX
; KW SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-1B00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Plepenbrock C, Berlin K.
; XX
; PS WPI: 2001-657177/75.
; CC Set of oligonucleotides, useful for diagnosis and cell typing, is
; CC designed to detect single nucleotide polymorphisms and cytosine
; CC methylation status
; XX
; PS Claim 1: SEQ ID 295459; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and

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; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; CC SQ Sequence 12 BP; 5 A; 0 C; 2 G; 5 T; 0 other;
;
; ABH95466 Length: 12 September 17, 2003 14:26 Type: N Check: 5986 ..
;
; Query Match
; Best Local Similarity 52.0%; Score 10.4; DB 1; Length 12;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; QY 2743 ATAAATTCCTT 2754
; DB 12 ATAAATTCCTT 1
;
; RESULT 131
; abh96223/c
; TOIG OF: abh96223 check: 5750 from: 1 to: 12
;
; ID ABH96223 standard; DNA; 12 BP.
; AC ABH96223;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 296216 for detecting SNP TSC0016961.
; XX
; KW SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001MO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; DR
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 296216; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABH00010-ABH99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; CC SQ Sequence 12 BP; 4 A; 0 C; 3 G; 5 T; 0 other;
;
; ABH96223 Length: 12 September 17, 2003 14:26 Type: N Check: 5750 ..

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; abh96223
;
; Query Match
; Best Local Similarity 52.0%; Score 10.4; DB 1; Length 12;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; QY 2739 CTCATTAATTT 2750
; DB 12 CTCATTAATTT 1
;
; RESULT 132
; abh98281/c
; TOIG OF: abh98281 check: 5632 from: 1 to: 12
;
; ID ABH98281 standard; DNA; 12 BP.
; AC ABH98281;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 298274 for detecting SNP TSC0018004.
; XX
; KW SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001MO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; DR
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 298274; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABH00010-ABH99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; CC SQ Sequence 12 BP; 8 A; 0 C; 1 G; 3 T; 0 other;
;
; ABH98281 Length: 12 September 17, 2003 14:26 Type: N Check: 5632 ..
;
; Query Match
; Best Local Similarity 52.0%; Score 10.4; DB 1; Length 12;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; QY 2744 TAAATTCCTT 2755
; DB 12 TAAATTCCTT 1

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Db      12 TATTAATCTTTT 1

RESULT 133
ab101463
; TOIG of: ab101463 check: 6025 from: 1 to: 12
; ID   AB101463 standard; DNA: 12 BP.
; XX   ;
; AC   AB101463;
; XX   ;
; DT   22-FEB-2002 (first entry)
; DE   Oligonucleotide primer SEQ ID NO 301436 for detecting SNP TSC0019504.
; XX   ;
; KW   SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM   peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW   central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS   Homo sapiens.
; XX   ;
; PN   WO200177384-A2..
; XX   ;
; PD   18-OCT-2001.
; XX   ;
; PE   06-APR-2001; 2001WO-IB00713.
; XX   ;
; PR   07-APR-2000; 2000DE-1019173.
; XX   ;
; PA   (EPIC-) EPIDENOMICS AG.
; XX   ;
; PI   Olek A, Piepenbrock C, Berlin K;
; XX   ;
; DR   WPI; 2001-657177/75.
; XX   ;
; PT   Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT   designed to detect single nucleotide polymorphisms and cytosine
; PT   methylation status -
; XX   ;
; PS   Claim 1; SEQ ID 301436; 29pp + Sequence Listing; German.
; XX   ;
; CC   This invention describes novel oligonucleotide primers or peptide nucleic
; CC   acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC   and cytosine methylation status in chemically pretreated genomic DNA. The
; CC   oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC   range of diseases including immune system, gastrointestinal, respiratory,
; CC   central nervous system, cardiovascular and metabolic disorders. The
; CC   oligomers are also used for detecting cell type differentiation.
; CC   ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC   AB100010-AB182073 represent the oligomers described in the invention.
; CC   NOTE: The sequence data for this patent did not form part of the printed
; CC   specification, but was obtained in electronic format from WIPO at
; CC   ftp.wipo.int/pub/published_pcr_sequences.
; XX   ;
; SQ   Sequence 12 BP; 5 A; 1 C; 0 G; 6 T; 0 other;
;
; AB101463 Length: 12 September 17, 2003 14:26 Type: N Check: 6025 ..
ab101463

Query Match      52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2745 AATAATCTTTC 2756
Db      1 AATAATCTTTC 12

RESULT 134
ab104056
; TOIG of: ab104056 check: 5905 from: 1 to: 12
; ID   AB104056 standard; DNA: 12 BP.

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; XX   AB104056;
; AC   ;
; XX   ;
; DT   22-FEB-2002 (first entry)
; DE   Oligonucleotide primer SEQ ID NO 304029 for detecting SNP TSC0020753.
; XX   ;
; KW   SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM   peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW   central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS   Homo sapiens.
; XX   ;
; PN   WO200177384-A2.
; XX   ;
; PD   18-OCT-2001.
; XX   ;
; PE   06-APR-2001; 2001WO-IB00713.
; XX   ;
; PR   07-APR-2000; 2000DE-1019173.
; XX   ;
; PA   (EPIC-) EPIDENOMICS AG.
; XX   ;
; PI   Olek A, Piepenbrock C, Berlin K;
; XX   ;
; DR   WPI; 2001-657177/75.
; XX   ;
; PT   Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT   designed to detect single nucleotide polymorphisms and cytosine
; PT   methylation status -
; XX   ;
; PS   Claim 1; SEQ ID 304029; 29pp + Sequence Listing; German.
; XX   ;
; CC   This invention describes novel oligonucleotide primers or peptide nucleic
; CC   acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC   and cytosine methylation status in chemically pretreated genomic DNA. The
; CC   oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC   range of diseases including immune system, gastrointestinal, respiratory,
; CC   central nervous system, cardiovascular and metabolic disorders. The
; CC   oligomers are also used for detecting cell type differentiation.
; CC   ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC   AB100010-AB182073 represent the oligomers described in the invention.
; CC   NOTE: The sequence data for this patent did not form part of the printed
; CC   specification, but was obtained in electronic format from WIPO at
; CC   ftp.wipo.int/pub/published_pcr_sequences.
; XX   ;
; SQ   Sequence 12 BP; 6 A; 1 C; 0 G; 5 T; 0 other;
;
; AB104056 Length: 12 September 17, 2003 14:26 Type: N Check: 5905 ..
ab104056

Query Match      52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2743 AATAATCTTTC 2754
Db      1 AATAATCTTTC 12

RESULT 135
ab104534
; TOIG of: ab104534 check: 5683 from: 1 to: 12
; ID   AB104534 standard; DNA: 12 BP.
; XX   ;
; AC   AB104534;
; XX   ;
; DT   22-FEB-2002 (first entry)
; DE   Oligonucleotide primer SEQ ID NO 304507 for detecting SNP TSC0020972.
; XX   ;
; KW   SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;

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; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; XX Homo sapiens.
; XX WO200177384-A2.
; XX PD 18-OCT-2001.
; XX 06-APR-2001; 2001WO-IB00713.
; XX 07-APR-2000; 2000DE-1019173.
; XX (EPIG-) EPIGENOMICS AG.
; XX Olek A, Piepenbrock C, Berlin K;
; XX WPI; 2001-657177/75.
; XX DR WPI; 2001-657177/75.
; XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; XX PT designed to detect single nucleotide polymorphisms and cytosine
; XX PT methylation status.
; XX PS Claim 1; SEQ ID 304507; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 7 A; 2 C; 0 G; 3 T; 0 other;
; AB104534 Length: 12 September 17, 2003 14:26 Type: N Check: 5683 ..
; ab104534
Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2741 CAATAAATTCCT 2752
DB 1 CAAAAAATTCCT 12
RESULT 136
ab105436/c check: 5969 from: 1 to: 12
; TOIG of: ab105436
; ID AB105436 standard; DNA; 12 BP.
; XX
; AC AB105436;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 305409 for detecting SNP TSC0021429.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX WO200177384-A2.
; XX
; PD 18-OCT-2001.
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; XX
; XX 06-APR-2001; 2001WO-IB00713.
; XX 07-APR-2000; 2000DE-1019173.
; XX (EPIG-) EPIGENOMICS AG.
; XX Olek A, Piepenbrock C, Berlin K;
; XX WPI; 2001-657177/75.
; XX DR WPI; 2001-657177/75.
; XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; XX PT designed to detect single nucleotide polymorphisms and cytosine
; XX PT methylation status.
; XX PS Claim 1; SEQ ID 305409; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 4 A; 0 C; 3 G; 5 T; 0 other;
; AB105436 Length: 12 September 17, 2003 14:26 Type: N Check: 5969 ..
; ab105436
Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2741 CAATAAATTCCT 2752
DB 12 CAATAAATTCCT 1
RESULT 137
ab108786/c check: 5458 from: 1 to: 12
; TOIG of: ab108786
; ID AB108786 standard; DNA; 12 BP.
; XX
; AC AB108786;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 308759 for detecting SNP TSC0023206.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; DE Oligonucleotide primer SEQ ID NO 308759 for detecting SNP TSC0023206.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX WO200177384-A2.
; XX
; PD 18-OCT-2001.
```

```

; XX WPI: 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; PS
; XX Claim 1: SEQ ID 308759; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABT00010-ABT99989 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; CC Sequence 12 BP; 7 A; 2 C; 0 G; 3 T; 0 other:
; SQ
; AB108786 Length: 12 September 17, 2003 14:26 Type: N Check: 5458 ..
; ab108786

Query Match          52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2739 CTCATATAAATT 2750
Db 1 CTCATATAAATT 12

RESULT 138
ab112429
; TOIG of: ab112429 check: 5737 from: 1 to: 12
; ID AB112429 standard; DNA; 12 BP.
; AC AB112429;
; AT
; GT 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 312402 for detecting SNP TSC0025040.
; SNF: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PE 06-APR-2001; 2001WO-IB00713.
; PF 07-APR-2000; 2000DE-1019173.
; PG (EPIG-) EPIGENOMICS AG.
; PI Olek A, Plepenbrock C, Berlin K;
; PS WPI: 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; PS
; XX Claim 1: SEQ ID 312402; 29pp + Sequence Listing; German.
```

```

; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABT00010-ABT99989 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; CC Sequence 12 BP; 7 A; 1 C; 0 G; 4 T; 0 other:
; SQ
; AB112429 Length: 12 September 17, 2003 14:26 Type: N Check: 5737 ..
; ab112429

Query Match          52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2741 CAATATAAATTCT 2752
Db 1 CAATATAAATTAT 12

RESULT 139
ab114201
; TOIG of: ab114201 check: 5480 from: 1 to: 12
; ID AB114201 standard; DNA; 12 BP.
; AC AB114201;
; AT
; GT 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 314174 for detecting SNP TSC0026161.
; SNF: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PE 06-APR-2001; 2001WO-IB00713.
; PF 07-APR-2000; 2000DE-1019173.
; PG (EPIG-) EPIGENOMICS AG.
; PI Olek A, Plepenbrock C, Berlin K;
; PS WPI: 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; PS
; XX Claim 1: SEQ ID 314174; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
```

```
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABH00010-ABH92073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pcl_sequences.
XX
SO Sequence 12 BP; 6 A; 3 C; 0 G; 3 T; 0 other;
ABH14201 Length: 12 September 17, 2003 14:26 Type: N Check: 5480 ..
ab114201
```

```
Query Match      52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      2739 CTCGATGTAAT 2750
      1 CTCGATGTAAT 12
Db
```

RESULT 140

ab116938/c

TOIG of: ab116938 check: 5928 from: 1 to: 12

ID ABH16938 standard; DNA; 12 BP.

AC ABH16938;

DT 22-FEB-2002 (first entry)

DE Oligonucleotide primer SEQ ID NO 316911 for detecting SNP TSC0027682.

SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.

Homo sapiens.

WO200177384-A2.

PD 18-OCT-2001.

PF 06-APR-2001; 2001WO-IB00713.

PR 07-APR-2000; 2000DE-1019173.

PA (EPIG-) EPIGENOMICS AG.

PI Olek A, Piepenbrock C, Berlin K;

PS WPI; 2001-657177/75.

PT Set of oligonucleotides, useful for diagnosis and cell typing, is designed to detect single nucleotide polymorphisms and cytosine methylation status

Claim 1; SEQ ID 316911; 29pp + Sequence Listing; German.

This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation.

NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at ftp.wipo.int/pub/published_pcl_sequences.

Sequence 12 BP; 5 A; 0 C; 3 G; 4 T; 0 other;

```
ABH16938 Length: 12 September 17, 2003 14:26 Type: N Check: 5928 ..
ab116938
```

```
Query Match      52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      2745 AAAATCTCTTC 2756
      12 AAAATCTCTTC 1
Db
```

RESULT 141

ab119268/c

TOIG of: ab119268 check: 5802 from: 1 to: 12

ID ABH19268 standard; DNA; 12 BP.

AC ABH19268;

DT 22-FEB-2002 (first entry)

DE Oligonucleotide primer SEQ ID NO 319241 for detecting SNP TSC0029130.

SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.

Homo sapiens.

WO200177384-A2.

PD 18-OCT-2001.

PF 06-APR-2001; 2001WO-IB00713.

PR 07-APR-2000; 2000DE-1019173.

PA (EPIG-) EPIGENOMICS AG.

PI Olek A, Piepenbrock C, Berlin K;

PS WPI; 2001-657177/75.

PT Set of oligonucleotides, useful for diagnosis and cell typing, is designed to detect single nucleotide polymorphisms and cytosine methylation status

Claim 1; SEQ ID 319241; 29pp + Sequence Listing; German.

This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation.

NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at ftp.wipo.int/pub/published_pcl_sequences.

Sequence 12 BP; 7 A; 1 C; 0 G; 4 T; 0 other;

ABH19268 Length: 12 September 17, 2003 14:26 Type: N Check: 5802 ..
ab119268

```
Query Match      52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

QY 2744 TAAATCTCTTC 2755

Db 12 TAAATTTGTTT 1

RESULT 142
ab119961/c

TOIG of: ab119961 check: 6133 from: 1 to: 12

ID AB119961 standard; DNA; 12 BP.

AC AB119961;

DT 22-FEB-2002 (first entry)

DE Oligonucleotide primer SEQ ID NO 319934 for detecting SNP TSC0029477.

SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.

OS Homo sapiens.

PN WO200177384-A2.

PD 18-OCT-2001.

PF 06-APR-2001; 2001WO-IB00713.

PR 07-APR-2000; 2000DE-1019173.

PA (EPIC-) EPIGENOMICS AG.

PI Olek A., Piepenbrock C., Berlin K;

PS WPI: 2001-657177/75.

DR Set of oligonucleotides, useful for diagnosis and cell typing, is designed to detect single nucleotide polymorphisms and cytosine methylation status

PS Claim 1: SEQ ID 319934; 29pp + Sequence Listing; German.

CC This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation.

CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and CC AB100010-AB182073 represent the oligomers described in the invention.

CC NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at ftp.wipo.int/pub/published_pcr_sequences.

CC Sequence 12 BP; 4 A; 0 C; 1 G; 7 T; 0 other;

AB119961 Length: 12 September 17, 2003 14:26 Type: N Check: 6133 ..
ab119961

Query Match 52.0%; Score 10.4; DB 1; Length 12;

Best Local Similarity 91.7%; Pred. No. 1.2e+02; Mismatches 1; Indels 0; Gaps 0;

Matches 11; Conservative 0;

DB 2742 AATTAATTCCTT 2753

12 AATTAATTCAT 1

RESULT 143
ab122242/c

TOIG of: ab122242 check: 6017 from: 1 to: 12

ID AB122242 standard; DNA; 12 BP.

AC AB122242;

DT 22-FEB-2002 (first entry)

DE Oligonucleotide primer SEQ ID NO 322215 for detecting SNP TSC0030738.

SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.

OS Homo sapiens.

PN WO200177384-A2.

PD 18-OCT-2001.

PF 06-APR-2001; 2001WO-IB00713.

PR 07-APR-2000; 2000DE-1019173.

PA (EPIC-) EPIGENOMICS AG.

PI Olek A., Piepenbrock C., Berlin K;

PS WPI: 2001-657177/75.

DR Set of oligonucleotides, useful for diagnosis and cell typing, is designed to detect single nucleotide polymorphisms and cytosine methylation status

PS Claim 1: SEQ ID 322215; 29pp + Sequence Listing; German.

CC This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation.

CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and CC AB100010-AB182073 represent the oligomers described in the invention.

CC NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at ftp.wipo.int/pub/published_pcr_sequences.

CC Sequence 12 BP; 5 A; 0 C; 2 G; 5 T; 0 other;

AB122242 Length: 12 September 17, 2003 14:26 Type: N Check: 6017 ..
ab122242

Query Match 52.0%; Score 10.4; DB 1; Length 12;

Best Local Similarity 91.7%; Pred. No. 1.2e+02; Mismatches 1; Indels 0; Gaps 0;

Matches 11; Conservative 0;

DB 2742 AATTAATTCCTT 2753

12 AATTAATTCAT 1

RESULT 144
ab123629

TOIG of: ab123629 check: 6286 from: 1 to: 12

ID AB123629 standard; DNA; 12 BP.

AC AB123629;

DT 22-FEB-2002 (first entry)

DE Oligonucleotide primer SEQ ID NO 323602 for detecting SNP TSC0031483.

```

; KM SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PE 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS Claim 1; SEQ ID 323602; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 4 A; 0 C; 0 G; 8 T; 0 other;
; AB123629 Length: 12 September 17, 2003 14:26 Type: N Check: 6286 ..
; ab123629
Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 2744 TAAATTCCTTT 2755
Db 1 TAAATTTTTTT 12
RESULT 145
ab127821/c
; TOIG Of: ab127821 check: 5978 from: 1 to: 12
; ID AB127821 standard; DNA; 12 BP.
; AC AB127821.
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 327794 for detecting SNP TSC0033907.
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PE 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS Claim 1; SEQ ID 323602; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 4 A; 0 C; 0 G; 8 T; 0 other;
; AB123629 Length: 12 September 17, 2003 14:26 Type: N Check: 6286 ..
; ab123629
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; PD 18-OCT-2001.
; PE 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS Claim 1; SEQ ID 327794; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 3 A; 0 C; 2 G; 7 T; 0 other;
; AB127821 Length: 12 September 17, 2003 14:26 Type: N Check: 5978 ..
; ab127821
Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 2740 TCATTAATAATTC 2751
Db 12 TCATTAATAATTC 1
RESULT 146
ab130046/c
; TOIG Of: ab130046 check: 5955 from: 1 to: 12
; ID AB130046 standard; DNA; 12 BP.
; AC AB130046.
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 330019 for detecting SNP TSC0035279.
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PE 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS Claim 1; SEQ ID 327794; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 3 A; 0 C; 2 G; 7 T; 0 other;
; AB127821 Length: 12 September 17, 2003 14:26 Type: N Check: 5978 ..
; ab127821
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```

; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 330019; 29pp + Sequence Listing; German.
; CC
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-AB099989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SQ Sequence 12 BP; 6 A; 0 C; 1 G; 5 T; 0 other;
; AB130046 Length: 12 September 17, 2003 14:26 Type: N Check: 5955 ..
; ab130046

Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2744 TAAATTCCTTT 2755
Db 12 TAAATTCCTTT 1

RESULT 147
ab131085
; TOIG of: ab131085 check: 5588 from: 1 to: 12
; ID AB131085 standard; DNA; 12 BP.
; AC AB131085;
; XX
; XX 22-FEB-2002 (first entry)
; DT
; DE Oligonucleotide primer SEQ ID NO 331058 for detecting SNP TSC0035942.
; XX
; XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; PF
; PR 07-APR-2000; 2000DE-1019173.
; XX
; XX (EPIG-) EPIGENOMICS AG.
; PA
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; XX WPI; 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; CC

```

```

; PS Claim 1; SEQ ID 331058; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-AB099989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SQ Sequence 12 BP; 7 A; 2 C; 0 G; 3 T; 0 other;
; AB131085 Length: 12 September 17, 2003 14:26 Type: N Check: 5588 ..
; ab131085

Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2741 CAATTAATTCCT 2752
Db 1 CAATTAATTCCT 12

RESULT 148
ab131227/c
; TOIG of: ab131227 check: 5679 from: 1 to: 12
; ID AB131227 standard; DNA; 12 BP.
; AC AB131227;
; XX
; XX 22-FEB-2002 (first entry)
; DT
; DE Oligonucleotide primer SEQ ID NO 331200 for detecting SNP TSC0036047.
; XX
; XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; PF
; PR 07-APR-2000; 2000DE-1019173.
; XX
; XX (EPIG-) EPIGENOMICS AG.
; PA
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; XX WPI; 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; CC Claim 1; SEQ ID 331200; 29pp + Sequence Listing; German.
; PS
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-AB099989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SQ
; CC

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```
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC AB100010-AB182073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
CC
CC SQ Sequence 12 BP: 7 A; 0 C; 2 G; 3 T; 0 other;
AB131227 Length: 12 September 17, 2003 14:26 Type: N Check: 5679 ..
ab131227

Query Match          52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2744 TAAATTCCTTT 2755
DB 12 TCATAATCTTTT 1

RESULT 149
ab132513/c
TOIG of: ab132513 check: 6134 from: 1 to: 12
ID AB132513 standard; DNA: 12 BP.
AC AB132513;
XX
XX 22-FEB-2002 (first entry)
XX
XX Oligonucleotide primer SEQ ID NO 332486 for detecting SNP TSC0036944.
XX
XX DE SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX OS Homo sapiens.
XX
XX PN WO200177384-A2.
XX
XX PD 18-OCT-2001.
XX
XX PF 06-APR-2001: 2001WO-IB00713.
XX
XX PR 07-APR-2000: 2000DE-1019173.
XX
XX PA (EPIG-) EPIGENOMICS AG.
XX
XX PI Olek A, Piepenbrock C, Berlin K;
XX
XX PS WPI; 2001-657177/75.
XX
XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status.
XX
XX PS Claim 1; SEQ ID 332486; 29pp + Sequence listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX CC AB100010-AB182073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
XX SQ Sequence 12 BP: 5 A; 0 C; 0 G; 7 T; 0 other;
```

```
AB132513 Length: 12 September 17, 2003 14:26 Type: N Check: 6134 ..
ab132513

Query Match          52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2742 AATTAATTCCTT 2753
DB 12 AATTAATTCCTT 1

RESULT 150
ab135898
TOIG of: ab135898 check: 5946 from: 1 to: 12
ID AB135898 standard; DNA: 12 BP.
AC AB135898;
XX
XX 22-FEB-2002 (first entry)
XX
XX DE Oligonucleotide primer SEQ ID NO 335871 for detecting SNP TSC0039085.
XX
XX KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX OS Homo sapiens.
XX
XX PN WO200177384-A2.
XX
XX PD 18-OCT-2001.
XX
XX PF 06-APR-2001: 2001WO-IB00713.
XX
XX PR 07-APR-2000: 2000DE-1019173.
XX
XX PA (EPIG-) EPIGENOMICS AG.
XX
XX PI Olek A, Piepenbrock C, Berlin K;
XX
XX PS WPI; 2001-657177/75.
XX
XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status.
XX
XX PS Claim 1; SEQ ID 335871; 29pp + Sequence listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX CC AB100010-AB182073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
XX SQ Sequence 12 BP: 6 A; 1 C; 0 G; 5 T; 0 other;
AB135898 Length: 12 September 17, 2003 14:26 Type: N Check: 5946 ..
ab135898

Query Match          52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

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QY      2741 CAATAAATCTTCT 2752
Db      1 CAATAAATCTTCT 12

RESULT 151
abi36881/c
TOIG of: abi36881 check: 5816 from: 1 to: 12

; ID AB136881 standard; DNA; 12 BP.
; AC AB136881;
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 336854 for detecting SNP TSC0007633.
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI: 2001-657177/75.
; DR Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX Claim 1; SEQ ID 336854; 29pp + Sequence Listing; German.
; PS This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABI00010-ABI82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX Sequence 12 BP; 7 A; 0 C; 1 G; 4 T; 0 other;
; SQ
; AB136881 Length: 12 September 17, 2003 14:26 Type: N Check: 5816 ..
abi36881

Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2743 ATAAATCTTCTT 2754
Db      12 ATAAATCTTCTT 1

RESULT 152
abi37497
TOIG of: abi37497 check: 6191 from: 1 to: 12

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```

; ID AB137497 standard; DNA; 12 BP.
; AC AB137497;
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 337470 for detecting SNP TSC0039886.
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI: 2001-657177/75.
; DR Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX Claim 1; SEQ ID 337470; 29pp + Sequence Listing; German.
; PS This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABI00010-ABI82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX Sequence 12 BP; 5 A; 0 C; 0 G; 7 T; 0 other;
; SQ
; AB137497 Length: 12 September 17, 2003 14:26 Type: N Check: 6191 ..
abi37497

Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2743 ATAAATCTTCTT 2754
Db      1 ATAAATCTTCTT 12

RESULT 153
abi38239/c
TOIG of: abi38239 check: 5886 from: 1 to: 12

; ID AB138239 standard; DNA; 12 BP.
; AC AB138239;
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 338212 for detecting SNP TSC0040346.

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```

; XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; XX WO200177384-A2.
; EN 18-OCT-2001.
; PD 06-APR-2001; 2001WO-IB00713.
; PF 07-APR-2000; 2000DE-1019173.
; XX (EPIG-) EPIGENOMICS AG.
; PA Olek A, Piepenbrock C, Berlin K;
; PI WPI: 2001-657177/75.
; DR Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX Claim 1; SEQ ID 338212; 29pp + Sequence Listing; German.
; PS This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; SO Sequence 12 BP; 6 A; 0 C; 1 G; 5 T; 0 other;
; AB138239 Length: 12 September 17, 2003 14:26 Type: N Check: 5886 ..
; ab138239
Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2742 AATTAATCTCT 2753
DB 12 AATTAATCTCT 1
RESULT 154
ab138657
TOIG of: ab138657 check: 6054 from: 1 to: 12
; ID AB138657 standard; DNA; 12 BP.
; XX
; AC AB138657;
; XX
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 338630 for detecting SNP TSC0040589.
; XX
; KM SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; XX
; PN WO200177384-A2.

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; XX 18-OCT-2001.
; PD 06-APR-2001; 2001WO-IB00713.
; PF 07-APR-2000; 2000DE-1019173.
; XX (EPIG-) EPIGENOMICS AG.
; PA Olek A, Piepenbrock C, Berlin K;
; PI WPI: 2001-657177/75.
; DR Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX Claim 1; SEQ ID 338630; 29pp + Sequence Listing; German.
; PS This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; SO Sequence 12 BP; 4 A; 2 C; 0 G; 6 T; 0 other;
; AB138657 Length: 12 September 17, 2003 14:26 Type: N Check: 6054 ..
; ab138657
Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2746 AATCTCTCTCT 2757
DB 1 AATCTCTCTCT 12
RESULT 155
ab140571
TOIG of: ab140571 check: 5848 from: 1 to: 12
; ID AB140571 standard; DNA; 12 BP.
; XX
; AC AB140571;
; XX
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 340544 for detecting SNP TSC0041592.
; XX
; KM SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIG-) EPIGENOMICS AG.

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; XX Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; CC
; CC Set of oligonucleotides, useful for diagnosis and cell typing, is
; CC designed to detect single nucleotide polymorphisms and cytosine
; CC methylation status -
; CC
; PS Claim 1; SEQ ID 340544; 29pp + Sequence Listing; German.
; CC
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989 and
; CC AB100010-AB12073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; CC
; CC Sequence 12 BP; 6 A; 1 C; 0 G; 5 T; 0 other;
; SQ
; AB140571 Length: 12 September 17, 2003 14:26 Type: N Check: 5848 ..
; ab140571
;
; Query Match 52.0%; Score 10.4; DB 1; Length 12;
; Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; OY 2743 ATAAATCTCT 2754
; Db 1 ATAAATCTCT 12
;
; RESULT 156
; ab142150
; TOIG of: ab142150 check: 6077 from: 1 to: 12
; ID AB142150 standard; DNA; 12 BP.
; AC AB142150;
; XX
; XX 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 342123 for detecting SNP TSC0042394.
; XX
; XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX Homo sapiens.
; XX OS
; XX WO200177384-A2.
; XX PN
; XX 18-OCT-2001.
; XX PD
; XX 06-APR-2001; 2001WO-IB00713.
; XX PF
; XX 07-APR-2000; 2000DE-1019173.
; XX PR
; XX (EPIC-) EPIGENOMICS AG.
; XX PA
; XX Olek A, Piepenbrock C, Berlin K;
; XX PI
; XX WPI; 2001-657177/75.
; XX
; CC Set of oligonucleotides, useful for diagnosis and cell typing, is
; CC designed to detect single nucleotide polymorphisms and cytosine
; CC methylation status -

```

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; XX Claim 1; SEQ ID 342123; 29pp + Sequence Listing; German.
; PS
; CC
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989 and
; CC AB100010-AB12073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; CC
; CC Sequence 12 BP; 6 A; 0 C; 0 G; 6 T; 0 other;
; SQ
; AB142150 Length: 12 September 17, 2003 14:26 Type: N Check: 6077 ..
; ab142150
;
; Query Match 52.0%; Score 10.4; DB 1; Length 12;
; Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; OY 2742 ATAAATCTCT 2753
; Db 1 ATAAATCTCT 12
;
; RESULT 157
; ab142332
; TOIG of: ab142332 check: 5773 from: 1 to: 12
; ID AB142332 standard; DNA; 12 BP.
; AC AB142332;
; XX
; XX 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 342305 for detecting SNP TSC0042487.
; XX
; XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX Homo sapiens.
; XX OS
; XX WO200177384-A2.
; XX PN
; XX 18-OCT-2001.
; XX PD
; XX 06-APR-2001; 2001WO-IB00713.
; XX PF
; XX 07-APR-2000; 2000DE-1019173.
; XX PR
; XX (EPIC-) EPIGENOMICS AG.
; XX PA
; XX Olek A, Piepenbrock C, Berlin K;
; XX PI
; XX WPI; 2001-657177/75.
; XX
; CC Set of oligonucleotides, useful for diagnosis and cell typing, is
; CC designed to detect single nucleotide polymorphisms and cytosine
; CC methylation status -
; CC Claim 1; SEQ ID 342305; 29pp + Sequence Listing; German.
; CC
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,

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```
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABR00010-ABCG9989, ABR00010-ABF9989, ABR00010-ABH9989 and
CC ABR00010-ABH82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 12 BP; 5 A; 3 C; 0 G; 4 T; 0 other;
AB142382 Length: 12 September 17, 2003 14:26 Type: N Check: 5773 ..
ab142332

Query Match
Best Local Similarity 52.0%; Score 10.4; DB 1; Length 12;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2741 CAATTAATTCCT 2752
1 CAATTAATTCCT 12

RESULT 158
ab142883
TOIG of: ab142883 check: 6021 from: 1 to: 12
ID ABR142883 standard; DNA: 12 BP.
AC ABR142883;
XX
XX 22-FEB-2002 (first entry)
DE Oligonucleotide primer SEQ ID NO 342856 for detecting SNP TSC0042737.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPIC-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/5.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status
XX
XX Claim 1; SEQ ID 342856; 29pp + Sequence listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABR00010-ABCG9989, ABR00010-ABF9989, ABR00010-ABH9989 and
XX ABR00010-ABH82073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
```

```
SQ Sequence 12 BP; 5 A; 1 C; 0 G; 6 T; 0 other;
AB142883 Length: 12 September 17, 2003 14:26 Type: N Check: 6021 ..
ab142883

Query Match
Best Local Similarity 52.0%; Score 10.4; DB 1; Length 12;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2742 AATTAATTCCT 2753
1 AATTAATTCCT 12

RESULT 159
ab144467/c
TOIG of: ab144467 check: 5701 from: 1 to: 12
ID ABR144467 standard; DNA: 12 BP.
AC ABR144467;
XX
XX 22-FEB-2002 (first entry)
DE Oligonucleotide primer SEQ ID NO 344440 for detecting SNP TSC0043543.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPIC-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/5.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status
XX
XX Claim 1; SEQ ID 344440; 29pp + Sequence listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABR00010-ABCG9989, ABR00010-ABF9989, ABR00010-ABH9989 and
XX ABR00010-ABH82073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
XX SQ Sequence 12 BP; 7 A; 0 C; 2 G; 3 T; 0 other;
AB144467 Length: 12 September 17, 2003 14:26 Type: N Check: 5701 ..
ab144467

Query Match
Best Local Similarity 52.0%; Score 10.4; DB 1; Length 12;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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```
OY      2745 AAAATCTCTTTC 2756
      12 AATAATCTCTTTC 1
Db
RESULT 160
ab145059
; TOIG of: ab145059 check: 6016 from: 1 to: 12
; ID AB145059 standard; DNA; 12 BP.
; AC AB145059;
; XX 22-FEB-2002 (first entry)
; DT
; OS Homo sapiens.
; PN WO000177384-A2.
; PD 18-OCT-2001.
; PE 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPICGENOMICS AG.
; PE Olek A, Piepenbrock C, Berlin K;
; DR WPI: 2001-657177/75.
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PR methylation status -
; XX Claim 1; SEQ ID 345032; 29pp + Sequence Listing; German.
; PS
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; XX
; SQ Sequence 12 BP; 4 A; 2 C; 0 G; 6 T; 0 other;
; AB145059 Length: 12 September 17, 2003 14:26 Type: N Check: 6016 ..
ab145059
Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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OY      2746 AAAATCTCTTTC 2757
      12 AATAATCTCTTTC 1
Db
RESULT 161
ab145936
; TOIG of: ab145936 check: 6017 from: 1 to: 12
; ID AB145936 standard; DNA; 12 BP.
; AC AB145936;
; XX 22-FEB-2002 (first entry)
; DT
; OS Homo sapiens.
; PN WO000177384-A2.
; PD 18-OCT-2001.
; PE 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPICGENOMICS AG.
; PE Olek A, Piepenbrock C, Berlin K;
; DR WPI: 2001-657177/75.
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PR methylation status -
; XX Claim 1; SEQ ID 345989; 29pp + Sequence Listing; German.
; PS
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; XX
; SQ Sequence 12 BP; 5 A; 1 C; 0 G; 6 T; 0 other;
; AB145936 Length: 12 September 17, 2003 14:26 Type: N Check: 6017 ..
ab145936
Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
DE Oligonucleotide primer SEQ ID NO 346031 for detecting SNP TSC0044334.
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
OS Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPIG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status.
XX
XX Claim 1; SEQ ID 346031; 29bp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX CC ABH00010-ABH82073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pcl_sequences.
XX
XX Sequence 12 BP; 5 A; 2 C; 0 G; 5 T; 0 other;
XX
XX ABH6058 Length: 12 September 17, 2003 14:26 Type: N Check: 5873 ..
XX abh46058
XX
XX Query Match 52.0%; Score 10.4; DB 1; Length 12;
XX Best Local Similarity 91.7%; Pred. No. 1.2e+02;
XX Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
XX QY 2741 CAATTAATTC 2752
XX DB 1 CAATTAATTC 12
XX
XX RESULT 163
XX abh46487
XX TOIG of: abh46487 check: 5424 from: 1 to: 12
XX
XX ID ABH46487 standard; DNA; 12 BP.
XX
XX AC ABH46487;
XX
XX 22-FEB-2002 (first entry)
XX
XX Oligonucleotide primer SEQ ID NO 346460 for detecting SNP TSC0044589.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX OS Homo sapiens.
XX
XX
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PN WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPIG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status.
XX
XX Claim 1; SEQ ID 346460; 29bp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX CC ABH00010-ABH82073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pcl_sequences.
XX
XX Sequence 12 BP; 6 A; 8 C; 0 G; 3 T; 0 other;
XX
XX ABH46487 Length: 12 September 17, 2003 14:26 Type: N Check: 5424 ..
XX abh46487
XX
XX Query Match 52.0%; Score 10.4; DB 1; Length 12;
XX Best Local Similarity 91.7%; Pred. No. 1.2e+02;
XX Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
XX QY 2740 TCATTAATTC 2751
XX DB 1 TCATTAATTC 12
XX
XX RESULT 164
XX abh46936
XX TOIG of: abh46936 check: 5771 from: 1 to: 12
XX
XX ID ABH46936 standard; DNA; 12 BP.
XX
XX AC ABH46936;
XX
XX 22-FEB-2002 (first entry)
XX
XX Oligonucleotide primer SEQ ID NO 346909 for detecting SNP TSC0044827.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX OS Homo sapiens.
XX
XX PN WO200177384-A2.
XX
XX PD 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX
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PA (EPIC-) EPIDENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status -
XX
PS Claim 1; SEQ ID 346909; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX ABT00010-ABT99989 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pcr_sequences.
XX
XX Sequence 12 BP; 6 A; 2 C; 0 G; 4 T; 0 other;
XX
XX AB146936 Length: 12 September 17, 2003 14:26 Type: N Check: 5771 ..
XX ab146936
XX
XX Query Match 52.0%; Score 10.4; DB 1; Length 12;
XX Best Local Similarity 91.7%; Pred. No. 1.2e+02;
XX Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
XX 2742 AATTAATTCCTT 2753
XX
XX Db 1 AATTAATTCCTT 12
XX
XX RESULT 165
XX ab147607
XX TOIG of: ab147607 check: 6245 from: 1 to: 12
XX
XX ID AB147607 standard; DNA; 12 BP.
XX
XX AC AB147607;
XX
XX XX 22-FEB-2002 (first entry)
XX
XX DE Oligonucleotide primer SEQ ID NO 347580 for detecting SNP TSC0006225.
XX
XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX OS WO200177384-A2.
XX
XX PD 18-OCT-2001.
XX
XX PF 06-APR-2001; 2001WO-IB00713.
XX
XX PR 07-APR-2000; 2000DE-1019173.
XX
XX PA (EPIC-) EPIDENOMICS AG.
XX
XX PI Olek A, Piepenbrock C, Berlin K;
XX
XX PS WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine

PT methylation status -
XX
XX Claim 1; SEQ ID 347580; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX ABT00010-ABT99989 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pcr_sequences.
XX
XX Sequence 12 BP; 3 A; 1 C; 0 G; 8 T; 0 other;
XX
XX AB147607 Length: 12 September 17, 2003 14:26 Type: N Check: 6245 ..
XX ab147607
XX
XX Query Match 52.0%; Score 10.4; DB 1; Length 12;
XX Best Local Similarity 91.7%; Pred. No. 1.2e+02;
XX Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
XX 2744 TAAATTCCTT 2755
XX
XX Db 1 TAAATTCCTT 12
XX
XX RESULT 166
XX ab148760/c
XX TOIG of: ab148760 check: 5997 from: 1 to: 12
XX
XX ID AB148760 standard; DNA; 12 BP.
XX
XX AC AB148760;
XX
XX XX 22-FEB-2002 (first entry)
XX
XX DE Oligonucleotide primer SEQ ID NO 348733 for detecting SNP TSC0001079.
XX
XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX OS WO200177384-A2.
XX
XX PD 18-OCT-2001.
XX
XX PF 06-APR-2001; 2001WO-IB00713.
XX
XX PR 07-APR-2000; 2000DE-1019173.
XX
XX PA (EPIC-) EPIDENOMICS AG.
XX
XX PI Olek A, Piepenbrock C, Berlin K;
XX
XX PS WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status -
XX
XX Claim 1; SEQ ID 348733; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a

```

; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 4 A; 0 C; 1 G; 7 T; 0 other;
; AB148760 Length: 12 September 17, 2003 14:26 Type: N Check: 5997 ..
; ab148760

Query Match      52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2739 TCATATAAATTC 2750
Db 12 TCATATAAATTC 1

RESULT 167
ab149252/c
; TOIG of: ab149252 check: 5826 from: 1 to: 12
; ID AB149252 standard; DNA: 12 BP.
; AC AB149252;
; XX
; DT 22-FEB-2002 (first entry)
; OS Homo sapiens.
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-1B00713.
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; PS WPI; 2001-657177/75.
; DR
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; Claim 1: SEQ ID 349225; 29pp + Sequence listing; German.
; XX
; CC This invention describes novel oligonucleotide primers of peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.

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; XX
; SQ Sequence 12 BP; 5 A; 0 C; 2 G; 5 T; 0 other;
; AB149252 Length: 12 September 17, 2003 14:26 Type: N Check: 5826 ..
; ab149252

Query Match      52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2740 TCATATAAATTC 2751
Db 12 TCATATAAATTC 1

RESULT 168
ab149725
; TOIG of: ab149725 check: 6077 from: 1 to: 12
; ID AB149725 standard; DNA: 12 BP.
; AC AB149725;
; XX
; DT 22-FEB-2002 (first entry)
; OS Homo sapiens.
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-1B00713.
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; PS WPI; 2001-657177/75.
; DR
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; Claim 1: SEQ ID 349698; 29pp + Sequence listing; German.
; XX
; CC This invention describes novel oligonucleotide primers of peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 3 A; 2 C; 0 G; 7 T; 0 other;
; AB149725 Length: 12 September 17, 2003 14:26 Type: N Check: 6077 ..
; ab149725

Query Match      52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;

```

	Matches	11: Conservative	0:	Mismatches	1:	Indels	0:	Gaps	0:
QY	2745	AAAAATCTCTTTC	2756						
Db	1	ATAATCTCTTTC	12						

```
; XX Oligonucleotide primer SEQ ID NO 355256 for detecting SNP TSC0049549.
; DE
; XX
; XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; XX WO200177384-A2.
; XX
; XX 18-OCT-2001.
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; XX
; XX 07-APR-2000; 2000DE-1019173.
; XX
; XX (EPIG-) EPIGENOMICS AG.
; XX
; XX Olek A, Piepenbrock C, Berlin K;
; XX WPI: 2001-657177/75.
; XX
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; XX Claim 1; SEQ ID 355256; 29bp + Sequence Listing; German.
; XX
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; XX
; XX Sequence 12 BP; 7 A; 0 C; 1 G; 4 T; 0 other;
; SQ
; AB155283 Length: 12 September 17, 2003 14:26 Type: N Check: 5874 ..
; ab155283
;
; Query Match 52.0%; Score 10.4; DB 1; Length 12;
; Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; QY 2745 AAAATTCCTTTC 2756
;
; Db 12 AAAATTCCTTTC 1
;
; RESULT 172
; ab156662/c
; TOIG of: ab156662 check: 5908 from: 1 to: 12
;
; ID AB156662 standard; DNA; 12 BP.
; XX
; AC AB156662;
; XX
; DE 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 356635 for detecting SNP TSC0050230.
; XX
; KW SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
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; XX WO200177384-A2.
; XX
; XX 18-OCT-2001.
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; XX
; XX 07-APR-2000; 2000DE-1019173.
; XX
; XX (EPIG-) EPIGENOMICS AG.
; XX
; XX Olek A, Piepenbrock C, Berlin K;
; XX WPI: 2001-657177/75.
; XX
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; XX Claim 1; SEQ ID 356635; 29bp + Sequence Listing; German.
; XX
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; XX
; XX Sequence 12 BP; 3 A; 1 C; 1 G; 7 T; 0 other;
; SQ
; AB156662 Length: 12 September 17, 2003 14:26 Type: N Check: 5908 ..
; ab156662
;
; Query Match 52.0%; Score 10.4; DB 1; Length 12;
; Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; QY 2738 GCTCAATTAAT 2749
;
; Db 12 GATCAATTAAT 1
;
; RESULT 173
; ab157005
; TOIG of: ab157005 check: 5850 from: 1 to: 12
;
; ID AB157005 standard; DNA; 12 BP.
; XX
; AC AB157005;
; XX
; DE 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 356978 for detecting SNP TSC008145.
; XX
; KW SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; XX WO200177384-A2.
; XX
; XX 18-OCT-2001.
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; XX
; XX 07-APR-2000; 2000DE-1019173.
; XX
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; XX (EPiG-) EPIGENOMICS AG.
; PA
; XX
; PI Olek A. Plepenbrock C, Berlin K;
; XX
; DR WPI: 2001-657177/75.
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PR designed to detect single nucleotide polymorphisms and cytosine
; PS methylation status
; PS Claim 1: SEQ ID 356978; 29pp + Sequence Listing; German.
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABI00010-ABI82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SQ Sequence 12 BP; 7 A; 1 C; 0 G; 4 T; 0 other;
; AB157005 Length: 12 September 17, 2003 14:26 Type: N Check: 5850 ..
; ab157005
;
; Query Match 52.0%; Score 10.4; DB 1; Length 12;
; Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; QY 2742 AATTAATTTCTT 2753
; Db 1 AAAAAAATTTCTT 12
;
; RESULT 174
; ab157194 check: 5887 from: 1 to: 12
; TOIG of: ab157194 standard; DNA; 12 BP.
; ID AB157194 standard; DNA; 12 BP.
; XX
; AC AB157194;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 357167 for detecting SNP TSC0050500.
; XX
; SNF: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPiG-) EPIGENOMICS AG.
; XX
; PI Olek A. Plepenbrock C, Berlin K;
; XX
; DR WPI: 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PS

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; PR designed to detect single nucleotide polymorphisms and cytosine
; PS methylation status
; PS Claim 1: SEQ ID 357167; 29pp + Sequence Listing; German.
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABI00010-ABI82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SQ Sequence 12 BP; 5 A; 2 C; 0 G; 5 T; 0 other;
; AB157194 Length: 12 September 17, 2003 14:26 Type: N Check: 5887 ..
; ab157194
;
; Query Match 52.0%; Score 10.4; DB 1; Length 12;
; Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; QY 2745 AAAATTTCTTTC 2756
; Db 1 AAAATTTCTTTC 12
;
; RESULT 175
; ab159571/c check: 5739 from: 1 to: 12
; TOIG of: ab159571 standard; DNA; 12 BP.
; ID AB159571 standard; DNA; 12 BP.
; XX
; AC AB159571;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 359544 for detecting SNP TSC0051646.
; XX
; SNF: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPiG-) EPIGENOMICS AG.
; XX
; PI Olek A. Plepenbrock C, Berlin K;
; XX
; DR WPI: 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PS designed to detect single nucleotide polymorphisms and cytosine
; PS methylation status
; PS Claim 1: SEQ ID 359544; 29pp + Sequence Listing; German.
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The

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CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC AB100010-AB182073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
CC
CC SQ Sequence 12 BP; 8 A; 0 C; 1 G; 3 T; 0 other;
; AB159571 Length: 12 September 17, 2003 14:26 Type: N Check: 5739 ..
; ab159571
Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2746 AATTCCTTCT 2757
Db 12 AATTCCTTCTT 1
RESULT 176
ab160014 check: 5736 from: 1 to: 12
TOIG of: ab160014 DNA: 12 BP.
ID AB160014 standard; DNA: 12 BP.
AC AB160014;
XX
XX
XX 22-FEB-2002 (first entry)
XX
XX oligonucleotide primer SEQ ID NO 359987 for detecting SNP TSC0051878.
XX
XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX Homo sapiens.
XX OS
XX WO200177384-A2.
XX
XX PA 18-OCT-2001.
XX
XX PE 06-APR-2001; 2001WO-IB00713.
XX
XX PR 07-APR-2000; 2000DE-1019173.
XX
XX (EPIC-) EPICENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status -
XX
XX Claim 1; SEQ ID 359987; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX AB100010-AB182073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX
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CC ftp.wipo.int/pub/published_pct_sequences.
CC
CC SQ Sequence 12 BP; 7 A; 1 C; 0 G; 4 T; 0 other;
; AB160014 Length: 12 September 17, 2003 14:26 Type: N Check: 5736 ..
; ab160014
Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2742 AATTAATCTT 2753
Db 1 AATTAATCTT 12
RESULT 177
ab160603/C check: 5933 from: 1 to: 12
TOIG of: ab160603 DNA: 12 BP.
ID AB160603 standard; DNA: 12 BP.
AC AB160603;
XX
XX
XX 22-FEB-2002 (first entry)
XX
XX oligonucleotide primer SEQ ID NO 360576 for detecting SNP TSC0052141.
XX
XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX Homo sapiens.
XX OS
XX WO200177384-A2.
XX
XX PA 18-OCT-2001.
XX
XX PE 06-APR-2001; 2001WO-IB00713.
XX
XX PR 07-APR-2000; 2000DE-1019173.
XX
XX (EPIC-) EPICENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status -
XX
XX Claim 1; SEQ ID 360576; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX AB100010-AB182073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
XX SQ Sequence 12 BP; 5 A; 0 C; 2 G; 5 T; 0 other;
; AB160603 Length: 12 September 17, 2003 14:26 Type: N Check: 5933 ..
; ab160603
Query Match 52.0%; Score 10.4; DB 1; Length 12;
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; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 364715 for detecting SNP TSC0054667.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; XX
; XX WO200177384-A2.
; XX
; XX 18-OCT-2001.
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; XX
; XX 07-APR-2000; 2000DE-1019173.
; XX
; XX (EPIC-) EPIGENOMICS AG.
; XX
; XX Olek A, Piepenbrock C, Berlin K;
; XX
; XX WPI: 2001-657177/75.
; XX
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; XX designed to detect single nucleotide polymorphisms and cytosine
; XX methylation status.
; XX
; PS Claim 1; SEQ ID 364715; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABH00010-ABH82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; XX
; SQ Sequence 12 BP; 4 A; 1 C; 0 G; 7 T; 0 other;
;
; AB164742 Length: 12 September 17, 2003 14:26 Type: N Check: 6114 ..
; ab164742
;
; Query Match 52.0%; Score 10.4; DB 1; Length 12;
; Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; QY 2743 ATTAATAATCTTT 2754
; DB 1 ATTAATAATCTTT 12
;
; RESULT 181
; ab165089
; TOIG of: ab165089 check: 5838 from: 1 to: 12
;
; ID AB165089 standard; DNA; 12 BP.
; XX
; AC AB165089;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 365062 for detecting SNP TSC0054896.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX

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; OS Homo sapiens.
; XX
; XX WO200177384-A2.
; XX
; XX 18-OCT-2001.
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; XX
; XX 07-APR-2000; 2000DE-1019173.
; XX
; XX (EPIC-) EPIGENOMICS AG.
; XX
; XX Olek A, Piepenbrock C, Berlin K;
; XX
; XX WPI: 2001-657177/75.
; XX
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; XX designed to detect single nucleotide polymorphisms and cytosine
; XX methylation status.
; XX
; PS Claim 1; SEQ ID 365062; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABH00010-ABH82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; XX
; SQ Sequence 12 BP; 5 A; 2 C; 0 G; 5 T; 0 other;
;
; AB165089 Length: 12 September 17, 2003 14:26 Type: N Check: 5838 ..
; ab165089
;
; Query Match 52.0%; Score 10.4; DB 1; Length 12;
; Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; QY 2739 CTCATTAATAT 2750
; DB 1 CTCATTAATAT 12
;
; RESULT 182
; ab165849/c
; TOIG of: ab165849 check: 5842 from: 1 to: 12
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; ID AB165849 standard; DNA; 12 BP.
; XX
; AC AB165849;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 365822 for detecting SNP TSC0055367.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; XX WO200177384-A2.
; XX
; XX 18-OCT-2001.
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; XX

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PR 07-APR-2000; 2000DE-1019173.
PA (EPiG-) EPIGENOMICS AG.
XX
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status -
XX
XX Claim 1; SEQ ID 365822; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX AB100010-AB182073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
XX SQ Sequence 12 BP; 7 A; 0 C; 1 G; 4 T; 0 other;
XX
XX AB165849 Length: 12 September 17, 2003 14:26 Type: N Check: 5842 ..
XX ab165849
XX
XX Query Match 52.0%; Score 10.4; DB 1; Length 12;
XX Best Local Similarity 91.7%; Pred. No. 1.2e+02;
XX Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
XX QY 2746 AATTCCTTCTTCT 2757
XX 12 AATTCCTTCTTCT 1
XX Db
XX
XX RESULT 183
XX ab165887
XX TOIG of: ab165887 check: 6074 from: 1 to: 12
XX
XX ID AB165887 standard; DNA; 18 BP.
XX
XX AC AB165887;
XX
XX XX
XX DT 22-FEB-2002 (first entry)
XX
XX DE Oligonucleotide primer SEQ ID NO 365860 for detecting SNP TSC0055397.
XX
XX KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX OS Homo sapiens.
XX
XX PN WO200177384-A2.
XX
XX PD 18-OCT-2001.
XX
XX PF 06-APR-2001; 2001WO-1B00713.
XX
XX PR 07-APR-2000; 2000DE-1019173.
XX
XX PA (EPiG-) EPIGENOMICS AG.
XX
XX PI Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX DR
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XX
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PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
PT
PT Claim 1; SEQ ID 365860; 29pp + Sequence Listing; German.
PT
PT This invention describes novel oligonucleotide primers or peptide nucleic
PT acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
PT and cytosine methylation status in chemically pretreated genomic DNA. The
PT oligonucleotides are used for diagnosis and/or prognosis of cancer and a
PT range of diseases including immune system, gastrointestinal, respiratory,
PT central nervous system, cardiovascular and metabolic disorders. The
PT oligomers are also used for detecting cell type differentiation.
PT ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
PT AB100010-AB182073 represent the oligomers described in the invention.
PT NOTE: The sequence data for this patent did not form part of the printed
PT specification, but was obtained in electronic format from WIPO at
PT ftp.wipo.int/pub/published_pct_sequences.
PT
PT SQ Sequence 12 BP; 5 A; 0 C; 1 G; 6 T; 0 other;
PT
PT AB165887 Length: 12 September 17, 2003 14:26 Type: N Check: 6074 ..
PT ab165887
PT
PT Query Match 52.0%; Score 10.4; DB 1; Length 12;
PT Best Local Similarity 91.7%; Pred. No. 1.2e+02;
PT Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
PT
PT QY 2743 AATAAATCTTCTT 2754
PT 1 AATAAATCTTCTT 12
PT Db
PT
PT RESULT 184
PT ab167559
PT TOIG of: ab167559 check: 5919 from: 1 to: 12
PT
PT ID AB167559 standard; DNA; 12 BP.
PT
PT AC AB167559;
PT
PT XX
PT DT 22-FEB-2002 (first entry)
PT
PT DE Oligonucleotide primer SEQ ID NO 367532 for detecting SNP TSC0056396.
PT
PT KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
PT peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
PT central nervous system; gastrointestinal; respiratory; immune; metabolic.
PT
PT OS Homo sapiens.
PT
PT PN WO200177384-A2.
PT
PT PD 18-OCT-2001.
PT
PT PF 06-APR-2001; 2001WO-1B00713.
PT
PT PR 07-APR-2000; 2000DE-1019173.
PT
PT PA (EPiG-) EPIGENOMICS AG.
PT
PT PI Olek A, Piepenbrock C, Berlin K;
PT
PT WPI; 2001-657177/75.
PT
PT DR
PT
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
PT
PT Claim 1; SEQ ID 367532; 29pp + Sequence Listing; German.
PT
PT This invention describes novel oligonucleotide primers or peptide nucleic
PT acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
```

~~CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABC00010-ABH82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.~~

~~XX Sequence 12 BP; 5 A; 2 C; 0 G; 5 T; 0 other;
SI ABI67559 Length: 12 September 17, 2003 14:26 Type: N Check: 5919 ..
abi67559~~

~~Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;~~

~~OY 2743 ATAAATTCCTT 2754
||||| |||||
Dd 1 ATAAATTCCTT 12~~

~~RESULT 185
abi68396
TOIG of: abi68396 check: 5983 from: 1 to: 12
ID ABI68396 standard; DNK: 12 BP.
AC ABI68396;
DT 22-FEB-2002 (first entry)
DE Oligonucleotide primer SEQ ID NO 368369 for detecting SNP TSC0004768.
XX
XX
XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX Homo sapiens.
OS
PN WO200177384-A2.
XX
PD 18-OCT-2001.
PF 06-APR-2001; 2001WO-IB00713.
PR 07-APR-2000; 2000DE-1019173.
XX
XX (EPIG-) EPIGENOMICS AG.
PA
PI Olek A. Plepenbrock C, Berlin K;
XX
DR WPI: 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status _
XX
XX Claim 1; SEQ ID 368369; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABH00010-ABH82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.~~

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: CC Specification, but was obtained in electronic format from WIPO at
: CC ftp.wipo.int/pub/published_pct_sequences.
: XX
: SQ Sequence 12 BP; 5 A; 1 C; 0 G; 6 T; 0 other;
: AB168396 Length: 12 September 17, 2003 14:26 Type: N Check: 5983 ..
: ab168396
:
: Query Match 52.0%; Score 10.4; DB 1; Length 12;
: Best Local Similarity 91.7%; Pred. NO. 1.2e+02;
: Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
:
: QY 2742 AATAAATTCYT 2753
: ||| |||||
: 1 AATTAATTCYT 12
:
: RESULT 186
: ab170387/C
: / TOIG of: ab170387 check: 6063 from: 1 to: 12
:
: ID AB170387 standard; DNA; 12 BP.
: XX
: AC AB170387;
: XX
: DT 22-FEB-2002 (first entry)
: DE
: XX Oligonucleotide primer SEQ ID NO 370360 for detecting SNP TSC0058141.
: XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
: KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
: KW central nervous system; gastrointestinal; respiratory; immune; metabolic
: XX
: OS Homo sapiens.
: XX
: PN WO200177384-A2.
: XX
: PD 18-OCT-2001.
: XX
: PF 06-APR-2001; 2001WO-1B00713.
: XX
: PR 07-APR-2000; 2000DE-1019473.
: XX
: PA (EPIG-) EPIGENOMICS AG.
: XX
: PI Olek A, Piepenbrock C, Berlin K;
: XX
: DR WPI; 2001-657177/75.
: XX
: PT Set of oligonucleotides, useful for diagnosis and cell typing, is
: PT designed to detect single nucleotide polymorphisms and cytosine
: PT methylation status
: XX
: PS Claim 1; SEQ ID 370360; 29pp + Sequence Listing; German.
: XX
: XX This invention describes novel oligonucleotide primers or peptide nucleic
: CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
: CC and cytosine methylation status in chemically pretreated genomic DNA. The
: CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
: CC range of diseases including immune system, gastrointestinal, respiratory
: CC central nervous system, cardiovascular and metabolic disorders. The
: CC oligomers are also used for detecting cell type differentiation.
: CC ABC00010-ABC99989, ABP00010-ABP99989, ABH00010-ABH99989 and
: CC ABRI00010-ABRI82073 represent the oligomers described in the invention.
: CC NOTE: The sequence data for this patent did not form part of the printed
: CC specification, but was obtained in electronic format from WIPO at
: CC ftp.wipo.int/pub/published_pct_sequences.
: XX
: XX Sequence 12 BP; 5 A; 0 C; 1 G; 6 T; 0 other;
:
: AB170387 Length: 12 September 17, 2003 14:26 Type: N Check: 6063 ..
: ab170387

```

Query Match 52.0%; Score 10.4; DB 1; Length 12;
 Best Local Similarity 91.7%; Pred. No. 1.2e+02;
 Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2743 AATAAATCTT 2754
 |||||
 DB 12 AATAAATCTT 1

RESULT 187
 ab172329
 TOIG of: ab172329 check: 5755 from: 1 to: 12

ID AB172329 standard; DNA; 12 BP.
 AC AB172329;
 XX
 DT 22-FEB-2002 (first entry)
 XX
 DE Oligonucleotide primer SEQ ID NO 372302 for detecting SNP TSC0059303.
 XX
 SNP, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX
 OS Homo sapiens.
 XX
 PN WO200177384-A2.
 XX
 PD 18-OCT-2001.
 XX
 PF 06-APR-2001; 2001WO-IB00713.
 XX
 PR 07-APR-2000; 2000DE-1019173.
 XX
 PA (EPIC-) EPIDENOMICS AG.
 XX
 PI Olek A, Piepenbrock C, Berlin K;
 XX
 DR WPI: 2001-657177/75.

PT Set of oligonucleotides, useful for diagnosis and cell typing, is
 designed to detect single nucleotide polymorphisms and cytosine
 methylation status.

PS Claim 1; SEQ ID 372302; 29pp + Sequence Listing; German.

CC This invention describes novel oligonucleotide primers or peptide nucleic
 acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.
 CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 CC AB100010-AB182073 represent the oligomers described in the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pcl_sequences.
 XX
 SQ Sequence 12 BP; 7 A; 1 C; 0 G; 4 T; 0 other;

AB172329 Length: 12 September 17, 2003 14:26 Type: N Check: 5755 ..
 ab172329

Query Match 52.0%; Score 10.4; DB 1; Length 12;
 Best Local Similarity 91.7%; Pred. No. 1.2e+02;
 Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2742 AATAAATCTT 2753
 |||||
 DB 1 AATAAATCTT 12

RESULT 188
 ab172968/c
 TOIG of: ab172968 check: 6125 from: 1 to: 12

ID AB172968 standard; DNA; 12 BP.
 AC AB172968;
 XX
 DT 22-FEB-2002 (first entry)
 XX
 DE Oligonucleotide primer SEQ ID NO 372941 for detecting SNP TSC0059741.
 XX
 SNP, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX
 OS Homo sapiens.
 XX
 PN WO200177384-A2.
 XX
 PD 18-OCT-2001.
 XX
 PF 06-APR-2001; 2001WO-IB00713.
 XX
 PR 07-APR-2000; 2000DE-1019173.
 XX
 PA (EPIC-) EPIDENOMICS AG.
 XX
 PI Olek A, Piepenbrock C, Berlin K;
 XX
 DR WPI: 2001-657177/75.

PT Set of oligonucleotides, useful for diagnosis and cell typing, is
 designed to detect single nucleotide polymorphisms and cytosine
 methylation status.

PS Claim 1; SEQ ID 372941; 29pp + Sequence Listing; German.

CC This invention describes novel oligonucleotide primers or peptide nucleic
 acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.
 CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 CC AB100010-AB182073 represent the oligomers described in the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pcl_sequences.
 XX
 SQ Sequence 12 BP; 4 A; 0 C; 2 G; 6 T; 0 other;

AB172968 Length: 12 September 17, 2003 14:26 Type: N Check: 6125 ..
 ab172968

Query Match 52.0%; Score 10.4; DB 1; Length 12;
 Best Local Similarity 91.7%; Pred. No. 1.2e+02;
 Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2742 AATAAATCTT 2753
 |||||
 DB 12 AATAAATCTT 1

RESULT 189
 ab173977
 TOIG of: ab173977 check: 5960 from: 1 to: 12

ID AB173977 standard; DNA; 12 BP.
 AC AB173977;

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; XX 22-FEB-2002 (first entry)
; DT
; XX Oligonucleotide primer SEQ ID NO 373950 for detecting SNP TSC0060413.
; DE
; KW SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2001; 2000DE-1019173.
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; DR WPI: 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; PS Claim 1; SEQ ID 373950; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SQ Sequence 12 BP; 5 A; 1 C; 0 G; 6 T; 0 other;
;
; AB173977 Length: 12 September 17, 2003 14:26 Type: N Check: 5960 ..
; ab173977
Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2744 TAAATTCCTT 2755
DB 1 TAAATTCCTAT 12

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```

; XX Homo sapiens.
; OS
; XX WO200177384-A2.
; PN
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2001; 2000DE-1019173.
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; DR WPI: 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; PS Claim 1; SEQ ID 374301; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SQ Sequence 12 BP; 7 A; 0 C; 0 G; 5 T; 0 other;
;
; AB174328 Length: 12 September 17, 2003 14:26 Type: N Check: 5887 ..
; ab174328
Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2742 AATAAATTCCTT 2753
DB 1 AATAAATTCAT 12

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; XX 07-APR-2000; 2000DE-1019173.
; PR (EPiG-) EPiGENOMICS AG.
; PA
; XX Olek A, Piepenbrock C, Berlin K;
; PI WPI; 2001-657177/75.
; DR
; PS Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 374964; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABF99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABH00010-ABH2073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; XX Sequence 12 BP; 4 A; 2 C; 0 G; 6 T; 0 other;
; SQ
; AB174991 Length: 12 September 17, 2003 14:26 Type: N Check: 6073 ..
; ab174991

Query Match          52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2746 AATTCCTTCT 2757
Db 1 AATTCCTTCT 12

RESULT 192
ab181190
; TOIG of: ab181190 check: 5629 from: 1 to: 12
; ID AB181190 standard; DNA; 12 BP.
; XX
; AC AB181190;
; XX
; DT 22-FEB-2002 (first entry)
; DE
; DE Oligonucleotide primer SEQ ID NO 381163 for detecting SNP TSC0008272.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD
; PD 18-OCT-2001.
; PD
; PE 06-APR-2001; 2001WO-IB00713.
; PR
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPiG-) EPiGENOMICS AG.
; PA Olek A, Piepenbrock C, Berlin K;
; PI WPI; 2001-657177/75.
; DR
; PS
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```

; XX set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 381163; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABF99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABH00010-ABH2073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; XX Sequence 12 BP; 7 A; 2 C; 0 G; 3 T; 0 other;
; SQ
; AB181190 Length: 12 September 17, 2003 14:26 Type: N Check: 5629 ..
; ab181190

Query Match          52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2739 CTCATTAATTAAT 2750
Db 1 CTCATTAATTAAT 12

RESULT 193
aas43211/c
; TOIG of: aas43211 check: 6827 from: 1 to: 13
; ID AAS43211 standard; DNA; 13 BP.
; XX
; AC AAS43211;
; XX
; DT 18-DEC-2001 (first entry)
; DE
; DE Human Oestrogen receptor beta gene SNP from exon 9 #2.
; KW Human; Oestrogen receptor beta; ERbeta; ds; SNP; chromosome 6q.25.1;
; KW single nucleotide polymorphism; cardiovascular disease;
; KW autoimmune disease; systemic lupus erythematosus; arthritis; rheumatism;
; KW osteoarthritis; osteoporosis; breast cancer; endometrial cancer.
; XX
; OS Homo sapiens.
; XX
; PN WO200162793-A2.
; PD
; PD 30-AUG-2001.
; PD
; PE 20-FEB-2001; 2001WO-US05860.
; PR
; PR 22-FEB-2000; 2000US-0183756.
; PR 24-JAN-2001; 2001US-0768183.
; PA (PERE ) PE CORP NY.
; PA Kalush F, Cassel MJ, Hwang SS, Winn-Deen ES;
; PI WPI; 2001-582041/65.
; DR
; PS Oestrogen receptor gene and protein polymorphisms useful for diagnosis
; PS of individuals at risk of developing bone disorders -
; PS Example 1; Figure 2a; 245pp; English.
; PS
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; CC The invention relates to a novel isolated peptide comprising or
; CC consisting of an amino acid sequence selected from an amino acid sequence
; CC of a variant oestrogen receptor protein (e.g. ERbeta), or a fragment of
; CC 10 amino acids), antibodies against them, nucleic acids encoding
; CC them (including vectors for transforming cells). The gene for human
; CC ERbeta is located on chromosome 6q.25.1. The variants are encoded
; CC by single nucleotide polymorphisms (SNP). The variant peptides and
; CC proteins can be used in assays to determine the biological
; CC activity of the protein, to raise antibodies, as a reagent in assays
; CC designed to quantitatively determine levels of the protein in
; CC biological fluids, to identify compounds that modulate receptor
; CC activity and to screen compounds for the ability to stimulate or
; CC inhibit interaction between the receptor protein and a target molecule
; CC that normally interacts with the receptor protein e.g. oestrogen.
; CC The antibody can be used to isolate the protein, to assess expression in
; CC disease states e.g. cardiovascular disease and autoimmune disease (e.g.
; CC systemic lupus erythematosus, arthritis, rheumatism and osteoarthritis),
; CC osteoporosis, breast cancer and endometrial cancer. In addition
; CC the antibodies can be used in pharmacogenomic analysis and inhibiting
; CC protein function, e.g. blocking the binding of the oestrogen receptor
; CC protein to a binding partner such as a ligand. The nucleic acids
; CC encoding the proteins can be used as probes, primers, chemical
; CC intermediates and in biological assays. The present sequence
; CC represents an SNP from the human ERbeta gene taken from the
; CC Liverpool clinical samples.
; SQ Sequence 13 BP; 8 A; 0 C; 0 G; 5 T; 0 other:
; AAS43211 Length: 13 September 17, 2003 14:26 Type: N Check: 6827 ..
; aas43211

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2744 TAAATTCCTTT 2755
Db 13 TAAATTCCTTT 2

RESULT 194
abc00024/c
; TOIG of: abc00024 check: 6637 from: 1 to: 13
; ID ABC00024 standard; DNA; 13 BP.
; AC ABC00024:
; XX
; DT 20-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 15 for detecting SNP TSC00000004.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001MO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is

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; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; PS Claim 1; SEQ ID 15; 29pp + Sequence Listing; German.
; XX
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC000010-ABC99989, ABF00010-ABF99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp://wipo.int/pub/published_pct_sequences.
; SQ Sequence 13 BP; 9 A; 0 C; 0 G; 4 T; 0 other:
; ABC00024 Length: 13 September 17, 2003 14:26 Type: N Check: 6637 ..
; abc00024

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2744 TAAATTCCTTT 2755
Db 12 TAAATTCCTTT 1

RESULT 195
abc00025
; TOIG of: abc00025 check: 7302 from: 1 to: 13
; ID ABC00025 standard; DNA; 13 BP.
; AC ABC00025:
; XX
; DT 20-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 16 for detecting SNP TSC00000004.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001MO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; PS Claim 1; SEQ ID 16; 29pp + Sequence Listing; German.
; XX
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The

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; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; range of diseases including immune system, gastrointestinal, respiratory,
; central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; CC Sequence 13 BP; 4 A; 0 C; 0 G; 9 T; 0 other;
; CC
; CC ABC00025 Length: 13 September 17, 2003 14:26 Type: N Check: 7302
; CC abc00025
; CC
; CC Query Match 52.0%; Score 10.4; DB 1; Length 13;
; CC Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; CC Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
; CC
; CC Db 2744 TAAATTCCTTT 2755
; CC 2 TAAATTCCTTT 13
; CC
; CC RESULT 196
; CC abc01900/c
; CC TOIG of: abc01900 check: 6899 from: 1 to: 13
; CC
; CC ID ABC01900 standard; DNA; 13 BP.
; CC
; CC AC ABC01900;
; CC
; CC XX 20-FEB-2002 (first entry)
; CC
; CC DE Oligonucleotide SEQ ID NO 1891 for detecting SNP TSC0000732.
; CC
; CC XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; CC peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; CC central nervous system; gastrointestinal; respiratory; immune; metabolic.
; CC
; CC OS Homo sapiens.
; CC
; CC XX WO200177384-A2.
; CC
; CC PM 18-OCT-2001.
; CC
; CC PD 06-APR-2001; 2001MO-1B00713.
; CC
; CC PF 07-APR-2000; 2000DE-1019173.
; CC
; CC PR (EPIG-) EPIGENOMICS AG.
; CC
; CC PA Olek A, Piepenbrock C, Berlin K;
; CC
; CC PI WPI: 2001-657177/75.
; CC
; CC XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; CC designed to detect single nucleotide polymorphisms and cytosine
; CC methylation status
; CC
; CC PT Claim 1; SEQ ID 1891; 29pp + Sequence Listing; German.
; CC
; CC PS This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; CC

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; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; CC XX Sequence 13 BP; 5 A; 0 C; 1 G; 7 T; 0 other;
; CC
; CC SQ ABC01900 Length: 13 September 17, 2003 14:26 Type: N Check: 6899
; CC abc01900
; CC
; CC Query Match 52.0%; Score 10.4; DB 1; Length 13;
; CC Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; CC Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
; CC
; CC Db 2739 CTCATTAATTT 2750
; CC 12 CTCATTAATTT 1
; CC
; CC RESULT 197
; CC abc01900
; CC TOIG of: abc01901 check: 6660 from: 1 to: 13
; CC
; CC ID ABC01901 standard; DNA; 13 BP.
; CC
; CC AC ABC01901;
; CC
; CC XX 20-FEB-2002 (first entry)
; CC
; CC DE Oligonucleotide SEQ ID NO 1892 for detecting SNP TSC0000732.
; CC
; CC XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; CC peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; CC central nervous system; gastrointestinal; respiratory; immune; metabolic.
; CC
; CC OS Homo sapiens.
; CC
; CC XX WO200177384-A2.
; CC
; CC PM 18-OCT-2001.
; CC
; CC PD 06-APR-2001; 2001MO-1B00713.
; CC
; CC PF 07-APR-2000; 2000DE-1019173.
; CC
; CC PR (EPIG-) EPIGENOMICS AG.
; CC
; CC PA Olek A, Piepenbrock C, Berlin K;
; CC
; CC PI WPI: 2001-657177/75.
; CC
; CC XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; CC designed to detect single nucleotide polymorphisms and cytosine
; CC methylation status
; CC
; CC PT Claim 1; SEQ ID 1892; 29pp + Sequence Listing; German.
; CC
; CC PS This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; CC
; CC SQ Sequence 13 BP; 7 A; 1 C; 0 G; 5 T; 0 other;
; CC
; CC ABC01901 Length: 13 September 17, 2003 14:26 Type: N Check: 6660
; CC abc01901
; CC
; CC Query Match 52.0%; Score 10.4; DB 1; Length 13;

```



```

; DT 20-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 4477 for detecting SNP TSC0001639.
; XX
; KW SNP: single nucleotide polymorphism; human; diagnosis: PNA; cancer: CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer: ss;
; XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIDENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 4477; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABG9989, ABF00010-ABF9989, ABH00010-ABH9989 and
; CC AB100010-AB12073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 5 A; 0 C; 1 G; 7 T; 0 other;
;
; ABC04486 Length: 13 September 17, 2003 14:26 Type: N Check: 7161 ..
; abc04486
;
; Query Match 52.0%; Score 10.4; DB 1; Length 13;
; Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; QY 2743 ATAAATTCCTT 2754
; Db 13 AAAAATTCCTT 2
;
; RESULT 201
; abc04487
; TOIG of: abc04487 check: 6845 from: 1 to: 13
;
; ID ABC04487 standard; DNA; 13 BP.
; XX
; AC ABC04487;
; XX
; DT 20-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 4478 for detecting SNP TSC0001639.
; XX
; KW SNP: single nucleotide polymorphism; human; diagnosis: PNA; cancer: CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer: ss;
; XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX

```

```

; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIDENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 4478; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABG9989, ABF00010-ABF9989, ABH00010-ABH9989 and
; CC AB100010-AB12073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 7 A; 1 C; 0 G; 5 T; 0 other;
;
; ABC04487 Length: 13 September 17, 2003 14:26 Type: N Check: 6845 ..
; abc04487
;
; Query Match 52.0%; Score 10.4; DB 1; Length 13;
; Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; QY 2743 ATAAATTCCTT 2754
; Db 13 AAAAATTCCTT 12
;
; RESULT 202
; abc09642/c
; TOIG of: abc09642 check: 6576 from: 1 to: 13
;
; ID ABC09642 standard; DNA; 13 BP.
; XX
; AC ABC09642;
; XX
; DT 20-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 9633 for detecting SNP TSC0002516.
; XX
; KW SNP: single nucleotide polymorphism; human; diagnosis: PNA; cancer: CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer: ss;
; XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX

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: PR 07-APR-2000; 2000DE-1019173.
: XX
: PA (EPiG-) EPIGENOMICS AG.
: XX
: PI Olek A, Piepenbrock C, Berlin K;
: XX
: DR WPI; 2001-657177/75.
: XX
: PT Set of oligonucleotides, useful for diagnosis and cell typing, is
: PR designed to detect single nucleotide polymorphisms and cytosine
: PT methylation status -
: XX
: PS Claim 1; SEQ ID 9633; 29pp + Sequence Listing; German.
: XX
: CC This invention describes novel oligonucleotide primers or peptide nucleic
: CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
: CC and cytosine methylation status in chemically pretreated genomic DNA. The
: CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
: CC range of diseases including immune system, gastrointestinal, respiratory,
: CC central nervous system, cardiovascular and metabolic disorders. The
: CC oligomers are also used for detecting cell type differentiation.
: CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
: CC AB100010-AB182073 represent the oligomers described in the invention.
: CC NOTE: The sequence data for this patent did not form part of the printed
: CC specification, but was obtained in electronic format from WIPO at
: CC ftp.wipo.int/pub/published_pct_sequences.
: XX
: SQ Sequence 13 BP; 6 A; 0 C; 2 G; 5 T; 0 other;
: ABC09642 Length: 13 September 17, 2003 14:26 Type: N Check: 6576 ..
: abc09642

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2740 TCATATAAATTC 2751
Db 12 TCTATAAATTC 1

RESULT 203
abc09643
: TOIG of: abc09643 check: 6631 from: 1 to: 13
: ID ABC09643 standard; DNA; 13 BP.
: XX
: AC ABC09643;
: XX
: DT 20-FEB-2002 (first entry)
: XX
: DE Oligonucleotide SEQ ID NO 9634 for detecting SNP TSC0002516.
: XX
: SNF; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
: KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
: KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
: XX
: OS Homo sapiens.
: XX
: PN WO200177384-A2.
: XX
: PD 18-OCT-2001.
: XX
: PF 06-APR-2001; 2001WO-1B00713.
: XX
: PR 07-APR-2000; 2000DE-1019173.
: XX
: PA (EPiG-) EPIGENOMICS AG.
: XX
: PI Olek A, Piepenbrock C, Berlin K;
: XX
: DR WPI; 2001-657177/75.
: XX

```

```

: PT Set of oligonucleotides, useful for diagnosis and cell typing, is
: PR designed to detect single nucleotide polymorphisms and cytosine
: PR methylation status -
: XX
: PS Claim 1; SEQ ID 9634; 29pp + Sequence Listing; German.
: XX
: CC This invention describes novel oligonucleotide primers or peptide nucleic
: CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
: CC and cytosine methylation status in chemically pretreated genomic DNA. The
: CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
: CC range of diseases including immune system, gastrointestinal, respiratory,
: CC central nervous system, cardiovascular and metabolic disorders. The
: CC oligomers are also used for detecting cell type differentiation.
: CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
: CC AB100010-AB182073 represent the oligomers described in the invention.
: CC NOTE: The sequence data for this patent did not form part of the printed
: CC specification, but was obtained in electronic format from WIPO at
: CC ftp.wipo.int/pub/published_pct_sequences.
: XX
: SQ Sequence 13 BP; 5 A; 2 C; 0 G; 6 T; 0 other;
: ABC09643 Length: 13 September 17, 2003 14:26 Type: N Check: 6631 ..
: abc09643

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2740 TCATATAAATTC 2751
Db 2 TCTATAAATTC 13

RESULT 204
abc15518/c
: TOIG of: abc15518 check: 6920 from: 1 to: 13
: ID ABC15518 standard; DNA; 13 BP.
: XX
: AC ABC15518;
: XX
: DT 20-FEB-2002 (first entry)
: XX
: DE Oligonucleotide SEQ ID NO 15525 for detecting SNP TSC0003439.
: XX
: SNF; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
: KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
: KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
: XX
: OS Homo sapiens.
: XX
: PN WO200177384-A2.
: XX
: PD 18-OCT-2001.
: XX
: PF 06-APR-2001; 2001WO-1B00713.
: XX
: PR 07-APR-2000; 2000DE-1019173.
: XX
: PA (EPiG-) EPIGENOMICS AG.
: XX
: PI Olek A, Piepenbrock C, Berlin K;
: XX
: DR WPI; 2001-657177/75.
: XX
: PT Set of oligonucleotides, useful for diagnosis and cell typing, is
: PR designed to detect single nucleotide polymorphisms and cytosine
: PR methylation status -
: XX
: PS Claim 1; SEQ ID 15525; 29pp + Sequence Listing; German.
: XX
: CC This invention describes novel oligonucleotide primers or peptide nucleic
: CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)

```

CC and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation.

ABIC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention.

NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at http://wipo.int/pub/published_pct_sequences.

Sequence 13 BP; 6 A; 0 C; 1 G; 6 T; 0 other;

ABCI5518 Length: 13 September 17, 2003 14:26 Type: N Check: 6920 ..
abcI5518

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2744 TAAATCTTTT 2755
||||| |||||
Dn 13 TAAAAACTTTT 2

RESULT 205
abcI5519
TOIG of: abcI5519 check: 6881 from: 1 to: 13

ID ABCI5519 standard; DNA; 13 BP.
XX
AC ABCI5519;
XX
DT 20-FEB-2002 (first entry)
XX
DE Oligonucleotide SNO ID NO 15526 for detecting SNP TSC0003439.
XX
KW SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PE 06-APR-2001; 2001WO-1B00713.
XX
PR 07-APR-2000; 2000DE-1019173.
XX
PA (EPig-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
DR WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
designed to detect single nucleotide polymorphisms and cytosine
methylation status -
XX
PS Claim 1; SNO ID 15526; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
and cytosine methylation status in chemically pretreated genomic DNA. The
oligonucleotides are used for diagnosis and/or prognosis of cancer and a
range of diseases including immune system, gastrointestinal, respiratory,
central nervous system, cardiovascular and metabolic disorders. The
oligomers are also used for detecting cell type differentiation.
XX
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
ABI00010-ABI82073 represent the oligomers described in the invention.
XX
NOTE: The sequence data for this patent did not form part of the printed

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CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
xx
SQ Sequence 13 BP; 6 A; 1 C; 0 G; 6 T; 0 other;
ABCI5519 Length: 13 September 17, 2003 14:26 Type: N Check: 6881
abc15519

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2744 TAAAAATCTTTT 2755
DO 1 TAAAAATCTTTT 12

RESULT 206
abc19524/c
TOIG of: abc19524 check: 6701 from: 1 to: 13
ID ABC19524 standard; DNA; 13 BP.
AC ABC19524;
XX
XX 20-FEB-2002 (first entry)
DE Oligonucleotide SEQ ID NO 19541 for detecting SNP TSC0004059.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
OS
PN WO200177384-A1
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001NO-IB00713.
XX
PR 07-APR-2000; 2000DE-1019173.
XX
PA (EPIG-) EPIGENOMICS AG.
PI Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status
XX
XX Claim 1: SEQ ID 19541; 29pp + Sequence Listing; German.
PS
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABG99989, ABF00010-ABP99989, ABH00010-ABH99989 and
XX ABC00010-ABH82073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 13 BP; 7 A; 0 C; 2 G; 4 T; 0 other;
SQ
ABCI9524 Length: 13 September 17, 2003 14:26 Type: N Check: 6701
abc19524

```

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2743 ATTAATTCCTT 2754
11 | | | | | | | | | |
12 ATTAATTCCTT 1

RESULT 207
abc19525

TOIG of: abc19525 check: 7077 from: 1 to: 13

ID ABC19525 standard; DNA; 13 BP.

AC ABC19525

DT 20-FEB-2002 (first entry)

DE oligonucleotide SEQ ID NO 19542 for detecting SNP TSC0004059.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;

KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

KW central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX Homo sapiens.

OS WO200177384-A2.

PN 18-OCT-2001.

PD 06-APR-2001; 2001WO-IB00713.

PE 07-APR-2000; 2000DE-1019173.

PR (EPIC-) EPIGENOMICS AG.

PA Olek A, Piepenbrock C, Berlin K;

PI WPI; 2001-657177/75.

PT Set of oligonucleotides, useful for diagnosis and cell typing, is

PT designed to detect single nucleotide polymorphisms and cytosine

PT methylation status.

XX Claim 1; SEQ ID 19542; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic

CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)

CC and cytosine methylation status in chemically pretreated genomic DNA. The

CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a

CC range of diseases including immune system, gastrointestinal, respiratory,

CC central nervous system, cardiovascular and metabolic disorders. The

CC oligomers are also used for detecting cell type differentiation.

CC ABC00010-ABG99989, ABE00010-ABF99989, ABH00010-ABH99989 and

CC AB100010-AB182073 represent the oligomers described in the invention.

CC NOTE: The sequence data for this patent did not form part of the printed

CC specification, but was obtained in electronic format from WIPO at

CC ftp.wipo.int/pub/published_pcl_sequences.

XX SQ Sequence 13 BP; 4 A; 2 C; 0 G; 7 T; 0 other;

ABC19525 Length: 13 September 17, 2003 14:26 Type: N Check: 7077 ..

RESULT 208
abc27826/c

TOIG of: abc27826 check: 7263 from: 1 to: 13

ID ABC27826 standard; DNA; 13 BP.

AC ABC27826;

DT 20-FEB-2002 (first entry)

DE oligonucleotide SEQ ID NO 27843 for detecting SNP TSC0007838.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;

KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

KW central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX Homo sapiens.

OS WO200177384-A2.

PN 18-OCT-2001.

PD 06-APR-2001; 2001WO-IB00713.

PE 07-APR-2000; 2000DE-1019173.

PR (EPIC-) EPIGENOMICS AG.

PA Olek A, Piepenbrock C, Berlin K;

PI WPI; 2001-657177/75.

PT Set of oligonucleotides, useful for diagnosis and cell typing, is

PT designed to detect single nucleotide polymorphisms and cytosine

PT methylation status.

XX Claim 1; SEQ ID 27843; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic

CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)

CC and cytosine methylation status in chemically pretreated genomic DNA. The

CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a

CC range of diseases including immune system, gastrointestinal, respiratory,

CC central nervous system, cardiovascular and metabolic disorders. The

CC oligomers are also used for detecting cell type differentiation.

CC ABC00010-ABG99989, ABE00010-ABF99989, ABH00010-ABH99989 and

CC AB100010-AB182073 represent the oligomers described in the invention.

CC NOTE: The sequence data for this patent did not form part of the printed

CC specification, but was obtained in electronic format from WIPO at

CC ftp.wipo.int/pub/published_pcl_sequences.

XX SQ Sequence 13 BP; 4 A; 0 C; 1 G; 8 T; 0 other;

ABC27826 Length: 13 September 17, 2003 14:26 Type: N Check: 7263 ..

QY 2742 ATTAATTCCTT 2753
11 | | | | | | | | | |
12 ATTAATTCCTT 1

RESULT 209
abc27827

TOIG of: abc27827 check: 6659 from: 1 to: 13

ID ABC27827 standard; DNA; 13 BP.

AC ABC27827;

```

; XX 20-FEB-2002 (first entry)
; DT
; XX
; DE Oligonucleotide SEQ ID NO 27844 for detecting SNP TSC0007838.
; XX
; KW SNP, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/5.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 27844; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABI00010-ABI82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SQ Sequence 13 BP; 8 A; 1 C; 0 G; 4 T; 0 other;
;
; ABC27827 Length: 13 September 17, 2003 14:26 Type: N Check: 6659 ..
; abc27827
;
; Query Match 52.0%; Score 10.4; DB 1; Length 13;
; Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; QY 2742 AATTAATTTCT 2753
; DB 2 AATTAATTTCT 13
;
; RESULT 210
; abc28868/c
; TOIG of: abc28868 check: 6923 from: 1 to: 13
;
; ID ABC28868 standard; DNA; 13 BP.
; AC ABC28868;
; XX
; DT 20-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 28885 for detecting SNP TSC0008433.
; XX
; KW SNP, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; KW
```

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; XX Homo sapiens.
; OS
; XX
; WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/5.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 28885; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABI00010-ABI82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SQ Sequence 13 BP; 5 A; 0 C; 2 G; 6 T; 0 other;
;
; ABC28868 Length: 13 September 17, 2003 14:26 Type: N Check: 6923 ..
; abc28868
;
; Query Match 52.0%; Score 10.4; DB 1; Length 13;
; Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; QY 2741 CAATTAATTTCT 2752
; DB 13 CAATTAATTTCT 2
;
; RESULT 211
; abc28869
; TOIG of: abc28869 check: 6756 from: 1 to: 13
;
; ID ABC28869 standard; DNA; 13 BP.
; AC ABC28869;
; XX
; DT 20-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 28886 for detecting SNP TSC0008433.
; XX
; KW SNP, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; KW
; OS Homo sapiens.
; XX
; WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
```

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; XX 07-APR-2000; 2000DE-1019173.
; PR
; XX (EPiG-) EPiGENOMICS AG.
; PA
; XX Olek A, Piepenbrock C, Berlin K;
; PI
; XX WPI; 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; PS
; XX Claim 1; SEQ ID 28886; 29pp + Sequence Listing; German.
; PS
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SQ Sequence 13 BP; 6 A; 4 C; 0 G; 5 T; 0 other;
; XX
; ABC28869 Length: 13 September 17, 2003 14:26 Type: N Check: 6756 ..
; abc28869
;
; Query Match 52.0%; Score 10.4; DB 1; Length 13;
; Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; QY 2741 CATAAATTCCT 2752
; Db 1 CATAAATTCCT 12
;
; RESULT 212
; abc34124
; TOIG of: abc34124 check: 6979 from: 1 to: 13
;
; ID ABC34124 standard; DNA; 13 BP.
; XX
; AC ABC34124;
; XX
; DT 20-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 34141 for detecting SNP TSC0010917.
; XX
; SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PA WO200177384-A2.
; PI
; PD 18-OCT-2001.
; PF
; XX 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPiG-) EPiGENOMICS AG.
; PT
; XX Olek A, Piepenbrock C, Berlin K;
; PI
; XX WPI; 2001-657177/75.
; DR
; CC
```

```

; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; PS
; XX Claim 1; SEQ ID 34141; 29pp + Sequence Listing; German.
; PS
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SQ Sequence 13 BP; 6 A; 0 C; 0 G; 7 T; 0 other;
; XX
; ABC34124 Length: 13 September 17, 2003 14:26 Type: N Check: 6979 ..
; abc34124
;
; Query Match 52.0%; Score 10.4; DB 1; Length 13;
; Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; QY 2744 TAAATTCCTT 2755
; Db 1 TAAATTCCTT 12
;
; RESULT 213
; abc34125/c
; TOIG of: abc34125 check: 6846 from: 1 to: 13
;
; ID ABC34125 standard; DNA; 13 BP.
; XX
; AC ABC34125;
; XX
; DT 20-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 34142 for detecting SNP TSC0010917.
; XX
; SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PA WO200177384-A2.
; PI
; PD 18-OCT-2001.
; PF
; XX 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPiG-) EPiGENOMICS AG.
; PT
; XX Olek A, Piepenbrock C, Berlin K;
; PI
; XX WPI; 2001-657177/75.
; DR
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms and cytosine
; CC methylation status
; CC Claim 1; SEQ ID 34142; 29pp + Sequence Listing; German.
; CC
```

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; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; CC Sequence 13 BP; 7 A; 0 C; 0 G; 6 T; 0 other:
; SQ
; ABC34125 Length: 13 September 17, 2003 14:26 Type: N Check: 6846 ..
; abc34125

Query Match          52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2744 TAAATTCCTT 2755
Db      13 TAAATTAATTT 2

RESULT 214
abc36382
; TOIG of: abc36382 check: 7055 from: 1 to: 13
; ID ABC36382 standard; DNA; 13 BP.
; AC ABC36382;
; XX
; XX 20-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 36389 for detecting SNP TSC0011431.
; DE
; OS SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; XX
; XX WO20017384-A2.
; XX
; XX 18-OCT-2001.
; XX
; XX 06-APR-2001; 2001WO-1B00713.
; XX
; XX 07-APR-2000; 2000DE-1019173.
; XX
; XX (EPIC-) EPIGENOMICS AG.
; XX
; XX Olek A, Piepenbrock C, Berlin K;
; PI
; XX
; XX WPI; 2001-657177/75.
; DR
; XX
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; PT
; PS Claim 1; SEQ ID 36399; 29pp + Sequence Listing; German.
; PS
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; CC Sequence 13 BP; 7 A; 0 C; 0 G; 6 T; 0 other:
; SQ
; ABC36383 Length: 13 September 17, 2003 14:26 Type: N Check: 6922 ..
; abc36383
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; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; CC Sequence 13 BP; 6 A; 0 C; 0 G; 7 T; 0 other:
; SQ
; ABC36382 Length: 13 September 17, 2003 14:26 Type: N Check: 7055 ..
; abc36382

Query Match          52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2742 AATTAATTCCTT 2753
Db      2 AATTAATTCCTT 13

RESULT 215
abc36383/c
; TOIG of: abc36383 check: 6922 from: 1 to: 13
; ID ABC36383 standard; DNA; 13 BP.
; AC ABC36383;
; XX
; XX 20-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 36400 for detecting SNP TSC0011431.
; DE
; OS SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; XX
; XX WO20017384-A2.
; XX
; XX 18-OCT-2001.
; XX
; XX 06-APR-2001; 2001WO-1B00713.
; XX
; XX 07-APR-2000; 2000DE-1019173.
; XX
; XX (EPIC-) EPIGENOMICS AG.
; XX
; XX Olek A, Piepenbrock C, Berlin K;
; PI
; XX
; XX WPI; 2001-657177/75.
; DR
; XX
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; PT
; PS Claim 1; SEQ ID 36400; 29pp + Sequence Listing; German.
; PS
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; CC Sequence 13 BP; 7 A; 0 C; 0 G; 6 T; 0 other:
; SQ
; ABC36383 Length: 13 September 17, 2003 14:26 Type: N Check: 6922 ..
; abc36383
```

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2742 AATTAATTCCTT 2753
DB 12 AATTAATTCCTT 1

RESULT 218
abc37578/c
TOIG of: abc37578 check: 6636 from: 1 to: 13

ID ABC37578 standard; DNA; 13 BP.
AC ABC37578;
DT 20-FEB-2002 (first entry)
DE Oligonucleotide SEQ ID NO 37595 for detecting SNP TSC0011699.
KW SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
OS Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX PD 06-APR-2001; 2001WO-IB00713.
XX
XX PE 07-APR-2000; 2000DE-1019173.
XX
XX PA (EPIG-) EPIGENOMICS AG.
XX
XX PI Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/5.
XX
XX DR Set of oligonucleotides, useful for diagnosis and cell typing, is
XX PT designed to detect single nucleotide polymorphisms and cytosine
XX PT methylation status
XX
XX PS Claim 1; SEQ ID 37595; 29pp + Sequence Listing; German.
XX
XX CC This invention describes novel oligonucleotide primers or peptide nucleic
XX CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX CC and cytosine methylation status in chemically pretreated genomic DNA. The
XX CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX CC range of diseases including immune system, gastrointestinal, respiratory,
XX CC central nervous system, cardiovascular and metabolic disorders. The
XX CC oligomers are also used for detecting cell type differentiation.
XX CC ABC00010-ABC99989, ABR00010-ABF99989, ABH00010-ABH99989 and
XX CC AB100010-AB182073 represent the oligomers described in the invention.
XX CC NOTE: The sequence data for this patent did not form part of the printed
XX CC specification, but was obtained in electronic format from WIPO at
XX CC ftp://ipo.int/pub/publ/published_pct_sequences.
XX
XX SQ Sequence 13 BP; 8 A; 0 C; 1 G; 4 T; 0 other;
XX
XX ABC37578 Length: 13 September 17, 2003 14:26 Type: N Check: 6636 ..
abc37578

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2746 AATTCCTTCCTT 2757
DB 13 AATTCCTTCCTT 2

RESULT 217
abc37579
TOIG of: abc37579 check: 7096 from: 1 to: 13

ID ABC37579 standard; DNA; 13 BP.
AC ABC37579;
DT 20-FEB-2002 (first entry)
DE Oligonucleotide SEQ ID NO 37596 for detecting SNP TSC0011699.
KW SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
OS Homo sapiens.
XX
XX WO200177384-A2.
XX
XX PD 18-OCT-2001.
XX
XX PE 06-APR-2001; 2001WO-IB00713.
XX
XX PR 07-APR-2000; 2000DE-1019173.
XX
XX PA (EPIG-) EPIGENOMICS AG.
XX
XX PI Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/5.
XX
XX DR Set of oligonucleotides, useful for diagnosis and cell typing, is
XX PT designed to detect single nucleotide polymorphisms and cytosine
XX PT methylation status
XX
XX PS Claim 1; SEQ ID 37596; 29pp + Sequence Listing; German.
XX
XX CC This invention describes novel oligonucleotide primers or peptide nucleic
XX CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX CC and cytosine methylation status in chemically pretreated genomic DNA. The
XX CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX CC range of diseases including immune system, gastrointestinal, respiratory,
XX CC central nervous system, cardiovascular and metabolic disorders. The
XX CC oligomers are also used for detecting cell type differentiation.
XX CC ABC00010-ABC99989, ABR00010-ABF99989, ABH00010-ABH99989 and
XX CC AB100010-AB182073 represent the oligomers described in the invention.
XX CC NOTE: The sequence data for this patent did not form part of the printed
XX CC specification, but was obtained in electronic format from WIPO at
XX CC ftp://ipo.int/pub/publ/published_pct_sequences.
XX
XX SQ Sequence 13 BP; 4 A; 1 C; 0 G; 8 T; 0 other;
XX
XX ABC37579 Length: 13 September 17, 2003 14:26 Type: N Check: 7096 ..
abc37579

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2746 AATTCCTTCCTT 2757
DB 1 AATTCCTTCCTT 12

RESULT 218
abc39522
TOIG of: abc39522 check: 7172 from: 1 to: 13

ID ABC39522 standard; DNA; 13 BP.


```

; AC ABC39522;
; XX 20-FEB-2002 (first entry)
; DT
; XX
; DE Oligonucleotide SEQ ID NO 39539 for detecting SNP TSC0012088.
; XX
; KW SNF: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIDENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 39539; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SO Sequence 13 BP; 4 A; 0 C; 2 G; 7 T; 0 other;
; XX
; AB39522 Length: 13 September 17, 2003 14:26 Type: N Check: 7172 ..
; abc39522

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2744 TAAATTCCTTT 2755
Db 2 TAAATTCCTTT 13

RESULT 219
abc39523/c
; TOIG of: abc39523 check: 6673 from: 1 to: 13
; ID ABC39523 standard; DNA; 13 BP.
; XX
; AC ABC39523;
; XX
; DT 20-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 39540 for detecting SNP TSC0012088.
; XX
; KW SNF: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIDENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 39540; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SO Sequence 13 BP; 7 A; 2 C; 0 G; 4 T; 0 other;
; XX
; AB39523 Length: 13 September 17, 2003 14:26 Type: N Check: 6673 ..
; abc39523

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2744 TAAATTCCTTT 2755
Db 12 TAAATTCCTTT 1

RESULT 220
abc48100/c
; TOIG of: abc48100 check: 6789 from: 1 to: 13
; ID ABC48100 standard; DNA; 13 BP.
; XX
; AC ABC48100;
; XX
; DT 21-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 48117 for detecting SNP TSC0013754.
; XX
; KW SNF: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX

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; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIDENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 39540; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SO Sequence 13 BP; 7 A; 2 C; 0 G; 4 T; 0 other;
; XX
; AB39523 Length: 13 September 17, 2003 14:26 Type: N Check: 6673 ..
; abc39523

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2744 TAAATTCCTTT 2755
Db 12 TAAATTCCTTT 1

RESULT 220
abc48100/c
; TOIG of: abc48100 check: 6789 from: 1 to: 13
; ID ABC48100 standard; DNA; 13 BP.
; XX
; AC ABC48100;
; XX
; DT 21-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 48117 for detecting SNP TSC0013754.
; XX
; KW SNF: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX

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PF 06-APR-2001; 2001WO-IB00713.
XX
PR 07-APR-2000; 2000DE-1019173.
XX
PA (EPiG-) EPIGENOMICS AG.
XX
PI Olek A, Plepenbrock C, Berlin K;
XX
DR WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status
XX
PS Claim 1; SEQ ID 48117; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABF99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC AB100010-AB182073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pcl_sequences.
XX
SQ Sequence 13 BP; 8 A; 0 C; 0 G; 5 T; 0 other;
XX
ABC48100 Length: 13 September 17, 2003 14:26 Type: N Check: 6789 ..
abc48100

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2743 ATTAATTCCTT 2754
DB 12 ATTAATTCCTT 1

RESULT 221
abc48101
TOIG of: abc48101 check: 7188 from: 1 to: 13
ID ABC48101 standard; DNA; 13 BP.
XX
AC ABC48101;
XX
DT 21-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 48118 for detecting SNP TSC0013754.
XX
SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB00713.
XX
PR 07-APR-2000; 2000DE-1019173.
XX
PA (EPiG-) EPIGENOMICS AG.
XX
PI Olek A, Plepenbrock C, Berlin K;
XX
```

```
DR WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status
XX
PS Claim 1; SEQ ID 48118; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABF99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC AB100010-AB182073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pcl_sequences.
XX
SQ Sequence 13 BP; 5 A; 0 C; 0 G; 8 T; 0 other;
XX
ABC48101 Length: 13 September 17, 2003 14:26 Type: N Check: 7188 ..
abc48101

Query Match 51.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2743 ATTAATTCCTT 2754
DB 2 ATTAATTCCTT 13

RESULT 222
abc49386
TOIG of: abc49386 check: 7036 from: 1 to: 13
ID ABC49386 standard; DNA; 13 BP.
XX
AC ABC49386;
XX
DT 21-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 49403 for detecting SNP TSC0013976.
XX
SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB00713.
XX
PR 07-APR-2000; 2000DE-1019173.
XX
PA (EPiG-) EPIGENOMICS AG.
XX
PI Olek A, Plepenbrock C, Berlin K;
XX
DR WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status
XX
PS Claim 1; SEQ ID 49403; 29pp + Sequence Listing; German.
XX
```

This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation.

NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at ftp.wipo.int/pub/published_pcr_sequences.

Sequence 13 BP; 6 A; 0 C; 0 G; 7 T; 0 other;

ABC49386 Length: 13 September 17, 2003 14:26 Type: N Check: 7036 ..

abc49386

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

2743 ATAAATTCCTT 2754
1 ATAAATTTT 12

Db 1 ATAAATTTT 12

RESULT 223
abc49387/c

TOLG of: abc49387 check: 6903 from: 1 to: 13

ID ABC49387 standard; DNA; 13 BP.

AC ABC49387;

XX 21-FEB-2002 (first entry)

DE Oligonucleotide SEQ ID NO 49404 for detecting SNP TSC0013976.

XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.

OS Homo sapiens.

XX WO200177384-A2.

XX 18-OCT-2001.

XX 06-APR-2001; 2001WO-IB00713.

XX 07-APR-2000; 2000DE-1019173.

XX (EPIC-) EPIGENOMICS AG.

PA Olek A, Piepenbrock C, Berlin K;

XX WPI; 2001-657177/75.

DR Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status -

PS Claim 1; SEQ ID 49404; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.

CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC AB100010-AB182073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pcr_sequences.

CC Sequence 13 BP; 8 A; 0 C; 0 G; 5 T; 0 other;

ABC68970 Length: 13 September 17, 2003 14:26 Type: N Check: 6732 ..

AB100010-AB182073 represent the oligomers described in the invention.

NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at ftp.wipo.int/pub/published_pcr_sequences.

Sequence 13 BP; 7 A; 0 C; 0 G; 6 T; 0 other;

ABC49387 Length: 13 September 17, 2003 14:26 Type: N Check: 6903 ..

abc49387

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

2743 ATAAATTCCTT 2754
13 ATAAATTTT 2

Db 13 ATAAATTTT 2

RESULT 224
abc68970/c

TOLG of: abc68970 check: 6732 from: 1 to: 13

ID ABC68970 standard; DNA; 13 BP.

AC ABC68970;

XX 21-FEB-2002 (first entry)

DE Oligonucleotide SEQ ID NO 68987 for detecting SNP TSC0017964.

XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.

OS Homo sapiens.

XX WO200177384-A2.

XX 18-OCT-2001.

XX 06-APR-2001; 2001WO-IB00713.

XX 07-APR-2000; 2000DE-1019173.

XX (EPIC-) EPIGENOMICS AG.

PA Olek A, Piepenbrock C, Berlin K;

XX WPI; 2001-657177/75.

DR Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status -

PS Claim 1; SEQ ID 68987; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.

CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC AB100010-AB182073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pcr_sequences.

CC Sequence 13 BP; 8 A; 0 C; 0 G; 5 T; 0 other;

ABC68970 Length: 13 September 17, 2003 14:26 Type: N Check: 6732 ..

abc68970

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2744 TAAATTCCTTT 2755
|||||
13 TAAATTTT 2

RESULT 225
abc68971

TOIG of: abc68971 check: 7131 from: 1 to: 13

ID ABC68971 standard; DNA; 13 BP.

AC ABC68971;

DT 21-FEB-2002 (first entry)

DE Oligonucleotide SEQ ID NO 68988 for detecting SNP TSC0017964.

SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
central nervous system; gastrointestinal; respiratory; immune; metabolic.

OS Homo sapiens.

XX WO200177384-A2.

XX 18-OCT-2001.

XX 06-APR-2001; 2001WO-IB00713.

XX 07-APR-2000; 2000DE-1019173.

XX (EPIC-) EPICENOMICS AG.

XX Olek A, Piepenbrock C, Berlin K;

XX WPI; 2001-657177/75.

Set of oligonucleotides, useful for diagnosis and cell typing, is
designed to detect single nucleotide polymorphisms and cytosine
methylation status.

PS Claim 1; SEQ ID 68988; 29pp + Sequence Listing; German.

This invention describes novel oligonucleotide primers or peptide nucleic
acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
and cytosine methylation status in chemically pretreated genomic DNA. The
oligonucleotides are used for diagnosis and/or prognosis of cancer and a
range of diseases including immune system, gastrointestinal, respiratory,
central nervous system, cardiovascular and metabolic disorders. The
oligonucleotides are also used for detecting cell type differentiation.
ABC00010-ABC99989, ABR00010-ABP9989, ABH0010-ABH9989 and
ABI00010-ABI82073 represent the oligomers described in the invention.
NOTE: The sequence data for this patent did not form part of the printed
specification, but was obtained in electronic format from WIPO at
ftp.wipo.int/pub/published_pot_sequences.

CC Sequence 13 BP; 5 A; 0 C; 0 G; 8 T; 0 other;

ABC68971 Length: 13 September 17, 2003 14:26 Type: N Check: 7131 ..
abc68971

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;

Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2744 TAAATTCCTTT 2755
|||||
11

Db 1 TAAATTTT 12

RESULT 226
abc77382/c

TOIG of: abc77382 check: 6740 from: 1 to: 13

ID ABC77382 standard; DNA; 13 BP.

AC ABC77382;

DT 21-FEB-2002 (first entry)

DE Oligonucleotide SEQ ID NO 77399 for detecting SNP TSC0019720.

SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
central nervous system; gastrointestinal; respiratory; immune; metabolic.

OS Homo sapiens.

XX WO200177384-A2.

XX 18-OCT-2001.

XX 06-APR-2001; 2001WO-IB00713.

XX 07-APR-2000; 2000DE-1019173.

XX (EPIC-) EPICENOMICS AG.

XX Olek A, Piepenbrock C, Berlin K;

XX WPI; 2001-657177/75.

Set of oligonucleotides, useful for diagnosis and cell typing, is
designed to detect single nucleotide polymorphisms and cytosine
methylation status.

PS Claim 1; SEQ ID 77399; 29pp + Sequence Listing; German.

This invention describes novel oligonucleotide primers or peptide nucleic
acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
and cytosine methylation status in chemically pretreated genomic DNA. The
oligonucleotides are used for diagnosis and/or prognosis of cancer and a
range of diseases including immune system, gastrointestinal, respiratory,
central nervous system, cardiovascular and metabolic disorders. The
oligonucleotides are also used for detecting cell type differentiation.
ABC00010-ABC99989, ABR00010-ABP9989, ABH0010-ABH9989 and
ABI00010-ABI82073 represent the oligomers described in the invention.
NOTE: The sequence data for this patent did not form part of the printed
specification, but was obtained in electronic format from WIPO at
ftp.wipo.int/pub/published_pot_sequences.

CC Sequence 13 BP; 4 A; 0 C; 3 G; 6 T; 0 other;

ABC77382 Length: 13 September 17, 2003 14:26 Type: N Check: 6740 ..
abc77382

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;

Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2739 CTCATATAAAT 2750
|||||
13 CTCATATAAAT 2

Db 13 CTCATATAAAT 2

RESULT 227
abc77383

TOIG of: abc77383 check: 6522 from: 1 to: 13

ID ABC77383 standard; DNA; 13 BP.

```

; XX ABC77383;
; AC 21-FEB-2002 (first entry)
; XX
; XX DE Oligonucleotide SEQ ID NO 77400 for detecting SNP TSC0019720.
; XX
; XX SNF; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX WO200177384-A2.
; XX
; XX 18-OCT-2001.
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; XX
; XX 07-APR-2000; 2000DE-1019173.
; XX
; XX (EPIC-) EPIGENOMICS AG.
; XX
; XX Olek A, Piepenbrock C, Berlin K;
; XX WPI; 2001-657177/75.
; XX
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; PT
; PS Claim 1; SEQ ID 77400; 29pp + Sequence listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; CC
; XX Sequence 13 BP; 6 A; 3 C; 0 G; 4 T; 0 other;
; SQ
; ABC77383 Length: 13 September 17, 2003 14:26 Type: N Check: 6522 ..
; abc77383

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2739 CTCATTAATAATT 2750
Db 1 CTCACCTAATAATT 12

RESULT 228
abc82686/c
TOIG of: abc82686 check: 6685 from: 1 to: 13

; ID ABC82686 standard; DNA; 13 BP.
; XX
; AC ABC82686;
; XX
; XX 21-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 82703 for detecting SNP TSC0020856.
; XX
; KM SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX WO200177384-A2.
; XX
; XX 18-OCT-2001.
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; XX
; XX 07-APR-2000; 2000DE-1019173.
; XX
; XX (EPIC-) EPIGENOMICS AG.
; XX
; XX Olek A, Piepenbrock C, Berlin K;
; XX WPI; 2001-657177/75.
; XX
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; PT
; PS Claim 1; SEQ ID 82703; 29pp + Sequence listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; CC
; XX Sequence 13 BP; 7 A; 0 C; 2 G; 4 T; 0 other;
; SQ
; ABC82686 Length: 13 September 17, 2003 14:26 Type: N Check: 6685 ..
; abc82686

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2744 TAAATTCCTTT 2755
Db 12 TAAATTCCTTT 1

RESULT 229
abc82687
TOIG of: abc82687 check: 6962 from: 1 to: 13

; ID ABC82687 standard; DNA; 13 BP.
; XX
; AC ABC82687;
; XX
; XX 21-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 82704 for detecting SNP TSC0020856.
; XX
; KM SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX WO200177384-A2.
; XX
; XX 18-OCT-2001.
; XX
```

```

; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX WO200177384-A2.
; XX
; XX 18-OCT-2001.
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; XX
; XX 07-APR-2000; 2000DE-1019173.
; XX
; XX (EPIC-) EPIGENOMICS AG.
; XX
; XX Olek A, Piepenbrock C, Berlin K;
; XX WPI; 2001-657177/75.
; XX
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; PT
; PS Claim 1; SEQ ID 82703; 29pp + Sequence listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; CC
; XX Sequence 13 BP; 7 A; 0 C; 2 G; 4 T; 0 other;
; SQ
; ABC82686 Length: 13 September 17, 2003 14:26 Type: N Check: 6685 ..
; abc82686

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2744 TAAATTCCTTT 2755
Db 12 TAAATTCCTTT 1

RESULT 229
abc82687
TOIG of: abc82687 check: 6962 from: 1 to: 13

; ID ABC82687 standard; DNA; 13 BP.
; XX
; AC ABC82687;
; XX
; XX 21-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 82704 for detecting SNP TSC0020856.
; XX
; KM SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX WO200177384-A2.
; XX
; XX 18-OCT-2001.
; XX
```

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; XX 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; XX (EPiG-) EPIGENOMICS AG.
; PA Olek A, Piepenbrock C, Berlin K;
; PI WPI; 2001-657177/75.
; DR Set of oligonucleotides, useful for diagnosis and cell typing, is
; XX designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; PS Claim 1; SEQ ID 82704; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-AB099989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB102073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; XX
; SQ Sequence 13 BP; 4 A; 2 C; 0 G; 7 T; 0 other;
; ABC82687 Length: 13 September 17, 2003 14:26 Type: N Check: 6962 ..
; abc82687

Query Match      52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2744 TAAATTCCTTT 2755
Db 2 TAAATTCCTCT 13

RESULT 230
abc88198/c
; TOIG of: abc88198 check: 6920 from: 1 to: 13
; ID ABC88198 standard; DNA; 13 BP.
; XX ABC88198;
; AC 21-FEB-2002 (first entry)
; DT
; XX
; DE Oligonucleotide SEQ ID NO 88215 for detecting SNP TSC0022168.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX (EPiG-) EPIGENOMICS AG.
; PA Olek A, Piepenbrock C, Berlin K;
; PI
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; XX WPI; 2001-657177/75.
; DR Set of oligonucleotides, useful for diagnosis and cell typing, is
; XX designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; PS Claim 1; SEQ ID 88215; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-AB099989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB102073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; XX
; SQ Sequence 13 BP; 4 A; 0 C; 2 G; 7 T; 0 other;
; ABC88198 Length: 13 September 17, 2003 14:26 Type: N Check: 6920 ..
; abc88198

Query Match      52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2739 CTCATTAATTAAT 2750
Db 12 CTCATTAATTAAT 1

RESULT 231
abc88199
; TOIG of: abc88199 check: 6586 from: 1 to: 13
; ID ABC88199 standard; DNA; 13 BP.
; XX ABC88199;
; AC 21-FEB-2002 (first entry)
; DT
; XX
; DE Oligonucleotide SEQ ID NO 88216 for detecting SNP TSC0022168.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX (EPiG-) EPIGENOMICS AG.
; PA Olek A, Piepenbrock C, Berlin K;
; PI WPI; 2001-657177/75.
; DR Set of oligonucleotides, useful for diagnosis and cell typing, is
; XX designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; PS Claim 1; SEQ ID 88216; 29pp + Sequence Listing; German.
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1 CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
2 CC ABI00010-ABI82073 represent the oligomers described in the invention.
3 CC NOTE: The sequence data for this patent did not form part of the printed
4 CC specification, but was obtained in electronic format from WIPO at
5 CC ftp.wipo.int/pub/published_pct_sequences.
6 CC
7 CC
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9 CC Sequence 13 BP; 4 A; 0 C; 1 G; 8 T; 0 other;
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; ID ABF02274 standard; DNA: 13 BP.
; XX
; AC ABF02274;
; XX
; DT 21-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 102271 for detecting SNP TSC0025499.
; XX
; SN; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 102271; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-AB099989, ABP00010-ABP99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; XX
; SQ Sequence 13 BP; 6 A; 0 C; 2 G; 5 T; 0 other;
; ABF02274 Length: 13 September 17, 2003 14:26 Type: N Check: 6838 ..
; abf02274

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2742 AATTAATTTCTT 2753
Db 13 AATTAATTTCTT 2
13 AATTAATTTCTT 2

RESULT 237
abf02275
; TOIG of: abf02275 check: 6816 from: 1 to: 13
; ID ABF02275 standard; DNA: 13 BP.
; XX
; AC ABF02275;
; XX
; DT 21-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 102272 for detecting SNP TSC0025499.
; XX

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; KW SN; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 102272; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-AB099989, ABP00010-ABP99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; XX
; SQ Sequence 13 BP; 5 A; 2 C; 0 G; 6 T; 0 other;
; ABF02275 Length: 13 September 17, 2003 14:26 Type: N Check: 6816 ..
; abf02275

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2742 AATTAATTTCTT 2753
Db 1 AATTAATTTCTT 12
1 AATTAATTTCTT 12

RESULT 238
abf08912/c
; TOIG of: abf08912 check: 6921 from: 1 to: 13
; ID ABF08912 standard; DNA: 13 BP.
; XX
; AC ABF08912;
; XX
; DT 21-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 108909 for detecting SNP TSC0027261.
; XX
; SN; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX

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; PD 18-OCT-2001.
; PF
; PR 06-APR-2001; 2001MO-IB00713.
; PA (EPiG-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; CC Set of oligonucleotides, useful for diagnosis and cell typing, is
; CC designed to detect single nucleotide polymorphisms and cytosine
; CC methylation status.
; CC Claim 1; SEQ ID 108910; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABH00010-ABH9989, ABH00010-ABH9989 and
; CC ABH00010-ABH9989 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC SQ Sequence 13 BP; 4 A; 0 C; 2 G; 7 T; 0 other;
; ABF08912 Length: 13 September 17, 2003 14:26 Type: N Check: 6921 ..
; abf08912
Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2739 CTCATTAATAAT 2750
DB 12 CACATTAATAAT 1
RESULT 239
abf08913
; TOIG of: abf08913 check: 6554 from: 1 to: 13
; ID ABF08913 standard; DNA; 13 BP.
; AC ABF08913;
; DT 21-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 108910 for detecting SNP TSC0027261.
; SNR: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; SNR: peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; SNR: central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001MO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPiG-) EPIGENOMICS AG.
; PI

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; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; CC Set of oligonucleotides, useful for diagnosis and cell typing, is
; CC designed to detect single nucleotide polymorphisms and cytosine
; CC methylation status.
; CC Claim 1; SEQ ID 108910; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABH00010-ABH9989, ABH00010-ABH9989 and
; CC ABH00010-ABH9989 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC SQ Sequence 13 BP; 7 A; 2 C; 0 G; 4 T; 0 other;
; ABF08913 Length: 13 September 17, 2003 14:26 Type: N Check: 6554 ..
; abf08913
Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2739 CTCATTAATAAT 2750
DB 2 CACATTAATAAT 13
RESULT 240
abf10568
; TOIG of: abf10568 check: 7378 from: 1 to: 13
; ID ABF10568 standard; DNA; 13 BP.
; AC ABF10568;
; DT 21-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 110565 for detecting SNP TSC0027593.
; SNR: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; SNR: peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; SNR: central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001MO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPiG-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; CC Set of oligonucleotides, useful for diagnosis and cell typing, is
; CC designed to detect single nucleotide polymorphisms and cytosine
; CC methylation status.

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; PS Claim 1; SEQ ID 110565; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-AB000010-ABF99989, ABH00010-ABH99989 and
; CC ABH00010-ABH82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 4 A; 0 C; 0 G; 9 T; 0 other;
; ABFI0568 Length: 13 September 17, 2003 14:26 Type: N Check: 7378 ..
; abfi0568
Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 2744 TAAATTCCTTT 2755
Db 1 TAAATTCCTTT 12
RESULT 241
abfi0569/c
TOIG of: abfi0569 check: 6713 from: 1 to: 13
; ID ABFI0569 standard; DNA; 13 BP.
; XX
; AC ABFI0569;
; XX
; DT 21-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 110566 for detecting SNP TSC002593.
; XX
; SNF: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PE 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Plepenbrock C, Berlin K;
; XX
; WPI: 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; XX designed to detect single nucleotide polymorphisms and cytosine
; XX methylation status -
; XX
; PS Claim 1; SEQ ID 110566; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-AB000010-ABF99989, ABH00010-ABH99989 and
; CC ABH00010-ABH82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 4 A; 0 C; 0 G; 9 T; 0 other;

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; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-AB000010-ABF99989, ABH00010-ABH99989 and
; CC ABH00010-ABH82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 9 A; 0 C; 0 G; 4 T; 0 other;
; ABFI0569 Length: 13 September 17, 2003 14:26 Type: N Check: 6713 ..
; abfi0569
Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 2744 TAAATTCCTTT 2755
Db 13 TAAATTCCTTT 2
RESULT 242
abfi6840/c
TOIG of: abfi6840 check: 6687 from: 1 to: 13
; ID ABFI6840 standard; DNA; 13 BP.
; XX
; AC ABFI6840;
; XX
; DT 21-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 116837 for detecting SNP TSC0029237.
; XX
; SNF: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PE 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Plepenbrock C, Berlin K;
; XX
; WPI: 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; XX designed to detect single nucleotide polymorphisms and cytosine
; XX methylation status -
; XX
; PS Claim 1; SEQ ID 116837; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-AB000010-ABF99989, ABH00010-ABH99989 and
; CC ABH00010-ABH82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 8 A; 0 C; 1 G; 4 T; 0 other;

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```
; ABF16840 Length: 13 September 17, 2003 14:26 Type: N Check: 6687 ..
abf16840
Query Match      52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2746 AATTCCTTCT 2757
Db      ||||| |||||
      12 AATTAATTTTCT 1

RESULT 243
abf16841
; TOIG of: abf16841 check: 7136 from: 1 to: 13
; ID ABF16841 standard; DNA; 13 BP.
; AC ABF16841;
; XX
; DF 21-FEB-2002 (first entry)
; DE oligonucleotide SEQ ID NO 116838 for detecting SNP TSC0029237.
; XX
; KM SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; PS Claim 1; SEQ ID 116838; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pt_sequences.
; XX
; SQ Sequence 13 BP; 4 A; 1 C; 0 G; 8 T; 0 other;
; ABF16841 Length: 13 September 17, 2003 14:26 Type: N Check: 7136 ..
abf16841
Query Match      52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 2746 AATTCCTTCT 2757
Db      ||||| |||||
      2 AATTAATTTTCT 13

RESULT 244
abf16842/C
; TOIG of: abf16842 check: 6554 from: 1 to: 13
; ID ABF16842 standard; DNA; 13 BP.
; AC ABF16842;
; XX
; DF 21-FEB-2002 (first entry)
; DE oligonucleotide SEQ ID NO 116839 for detecting SNP TSC0029237.
; XX
; KM SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; PS Claim 1; SEQ ID 116839; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pt_sequences.
; XX
; SQ Sequence 13 BP; 9 A; 0 C; 1 G; 3 T; 0 other;
; ABF16842 Length: 13 September 17, 2003 14:26 Type: N Check: 6554 ..
abf16842
Query Match      52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2746 AATTCCTTCT 2757
Db      ||||| |||||
      12 AATTAATTTTCT 1

RESULT 245
abf16843
; TOIG of: abf16843 check: 7269 from: 1 to: 13
```

```

; ID ABF16843 standard; DNA; 13 BP.
; XX
; KW ABF16843;
; AC
; XX
; DT 21-FEB-2002 (first entry)
; DE
; OS Homo sapiens.
; PN WO20017384-A2.
; PD 18-OCT-2001.
; PE 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI: 2001-657177/75.
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; PS Claim 1; SEQ ID 116840; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; XX Sequence 13 BP; 3 A; 1 C; 0 G; 9 T; 0 other;
; SQ
; ABF16843 Length: 13 September 17, 2003 14:26 Type: N Check: 7269 ..
; abf16843

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. NO. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2746 AATCTCTTCT 2757
DB 2 AATCTCTTCT 13

RESULT 246
abf18888/c
; TOIG of: abf18888 check: 6867 from: 1 to: 13
; ID ABF18888 standard; DNA; 13 BP.
; XX
; AC ABF18888;
; XX
; DT 21-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 118885 for detecting SNP TSC0029677.
; XX

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```

; XX
; KW SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; PN WO20017384-A2.
; PD 18-OCT-2001.
; PE 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI: 2001-657177/75.
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; PS Claim 1; SEQ ID 118885; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; XX Sequence 13 BP; 7 A; 0 C; 1 G; 5 T; 0 other;
; SQ
; ABF18888 Length: 13 September 17, 2003 14:26 Type: N Check: 6867 ..
; abf18888

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. NO. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2743 ATAAATTCCTT 2754
DB 12 ATAAATTCCTT 1

RESULT 247
abf18889
; TOIG of: abf18889 check: 7171 from: 1 to: 13
; ID ABF18889 standard; DNA; 13 BP.
; XX
; AC ABF18889;
; XX
; DT 21-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 118886 for detecting SNP TSC0029677.
; XX
; KW SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; PN WO20017384-A2.

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; XX Claim 1; SEQ ID 127280; 29pp + Sequence Listing; German.
; PS
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligomers are also used for detecting cell type differentiation. The
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders.
; CC AB000010-AB000010-ABF99989, ABF00010-ABH99989 and
; CC ABH00010-ABH99989 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SQ Sequence 13 BP; 6 A; 2 C; 0 G; 5 T; 0 other:
; ABF27283 Length: 13 September 17, 2003 14:26 Type: N Check: 6516 ..
; abf27283
Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2740 TCATTAATTC 2751
Db 1 TTAATAAATTC 12
RESULT 250
abf28274/c
; TOIG of: abf28274 check: 6863 from: 1 to: 13
; ID ABF28274 standard; DNA; 13 BP.
; AC ABF28274;
; XX
; DT 21-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 128271 for detecting SNP TSC0032120.
; XX
; SNF: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PA WO200177384-A2.
; PN
; PI 18-OCT-2001.
; PD
; PE 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 128271; 29pp + Sequence Listing; German.
; PS
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligomers are also used for detecting cell type differentiation. The
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders.
; CC AB000010-AB000010-ABF99989, ABF00010-ABH99989 and
; CC ABH00010-ABH99989 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SQ Sequence 13 BP; 6 A; 2 C; 0 G; 5 T; 0 other:
; ABF27283 Length: 13 September 17, 2003 14:26 Type: N Check: 6516 ..
; abf27283

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; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-AB000010-ABF99989, ABF00010-ABH99989 and
; CC ABH00010-ABH99989 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SQ Sequence 13 BP; 6 A; 0 C; 1 G; 6 T; 0 other:
; ABF28274 Length: 13 September 17, 2003 14:26 Type: N Check: 6863 ..
; abf28274
Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2744 TAAATTCATTT 2755
Db 13 TAAATTCATTT 2
RESULT 251
abf28275
; TOIG of: abf28275 check: 6824 from: 1 to: 13
; ID ABF28275 standard; DNA; 13 BP.
; AC ABF28275;
; XX
; DT 21-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 128272 for detecting SNP TSC0032120.
; XX
; SNF: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PA WO200177384-A2.
; PN
; PI 18-OCT-2001.
; PD
; PE 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 128272; 29pp + Sequence Listing; German.
; PS
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligomers are also used for detecting cell type differentiation. The
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders.
; CC AB000010-AB000010-ABF99989, ABF00010-ABH99989 and
; CC ABH00010-ABH99989 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SQ Sequence 13 BP; 6 A; 0 C; 1 G; 6 T; 0 other:
; ABF28274 Length: 13 September 17, 2003 14:26 Type: N Check: 6863 ..
; abf28274

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```
; $Q Sequence 13 BP; 6 A; 1 C; 0 G; 6 T; 0 other;
; ABE28275 Length: 13 September 17, 2003 14:26 Type: N Check: 6824 ..
abf28275

Query Match
Best Local Similarity 52.0%; Score 10.4; DB 1; Length 13;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2744 TAAATTCCTTTT 2755
DB 1 TAAATTCATTTT 12

RESULT 252
abf34262/c
; TOIG of: abf34262 check: 6544 from: 1 to: 13
; ID ABE34262 standard; DNA; 13 BP.
; AC ABE34262;
; XX 21-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 134259 for detecting SNP TSC0033465.
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; OS Homo sapiens.
; XX WO200177384-A2.
; PN 18-OCT-2001.
; PD 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/5.
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; PS Claim 1; SEQ ID 134259; 29pp + Sequence listing; German.
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABE00010-ABF99989, ABH00010-ABH99989 and
; CC ABI00010-ABI82073 represent the oligomers described in the invention
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SO Sequence 13 BP; 7 A; 0 C; 4 G; 2 T; 0 other;
; ABE34262 Length: 13 September 17, 2003 14:26 Type: N Check: 6544 ..
abf34262

Query Match
Best Local Similarity 52.0%; Score 10.4; DB 1; Length 13;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
OY 2746 AAATTCCTTTCT 2757
DB 12 AACTTCCTTTCT 1

RESULT 253
abf34263
; TOIG of: abf34263 check: 7141 from: 1 to: 13
; ID ABE34263 standard; DNA; 13 BP.
; AC ABE34263;
; XX 21-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 134260 for detecting SNP TSC0033465.
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; OS Homo sapiens.
; XX WO200177384-A2.
; PN 18-OCT-2001.
; PD 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/5.
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; PS Claim 1; SEQ ID 134260; 29pp + Sequence listing; German.
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABE00010-ABF99989, ABH00010-ABH99989 and
; CC ABI00010-ABI82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SO Sequence 13 BP; 2 A; 4 C; 0 G; 7 T; 0 other;
; ABE34263 Length: 13 September 17, 2003 14:26 Type: N Check: 7141 ..
abf34263

Query Match
Best Local Similarity 52.0%; Score 10.4; DB 1; Length 13;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2746 AAATTCCTTTCT 2757
DB 2 AACTTCCTTTCT 13

RESULT 254
abf36502
```



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; TOIG of: abf36502 check: 7289 from: 1 to: 13
; ID AEF36502 standard; DNA: 13 BP.
; AC AEF36502;
; XX
; XX 21-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 136499 for detecting SNP TSC0034107.
; XX
; XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; XX Homo sapiens.
; OS
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001MO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; PS Claim 1; SEQ ID 136499; 29pp + Sequence listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 4 A; 0 C; 1 G; 8 T; 0 other;
; ABF36502 Length: 13 September 17, 2003 14:26 Type: N Check: 7289 ..
; abf36502
Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 2744 TAAATTCCTTT 2755
DB 2 TAAATTTT 13
RESULT 255
abf36503/c
; TOIG of: abf36503 check: 6663 from: 1 to: 13
; ID AEF36503 standard; DNA: 13 BP.
; AC AEF36503;
; XX
; XX 21-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 136499 for detecting SNP TSC0034107.
; XX
; XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; XX Homo sapiens.
; OS
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001MO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; PS Claim 1; SEQ ID 136500; 29pp + Sequence listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 8 A; 1 C; 0 G; 4 T; 0 other;
; ABF36503 Length: 13 September 17, 2003 14:26 Type: N Check: 6663 ..
; abf36503
Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 2744 TAAATTCCTTT 2755
DB 12 TAAATTTT 1
RESULT 256
abf37534/c
; TOIG of: abf37534 check: 6748 from: 1 to: 13
; ID AEF37534 standard; DNA: 13 BP.
; AC AEF37534;
; XX
; XX 21-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 137531 for detecting SNP TSC0034382.
; XX
; XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; XX Homo sapiens.
; OS

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; DE Oligonucleotide SEQ ID NO 136500 for detecting SNP TSC0034107.
; XX
; XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; XX Homo sapiens.
; OS
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001MO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; PS Claim 1; SEQ ID 136500; 29pp + Sequence listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 8 A; 1 C; 0 G; 4 T; 0 other;
; ABF36503 Length: 13 September 17, 2003 14:26 Type: N Check: 6663 ..
; abf36503
Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 2744 TAAATTCCTTT 2755
DB 12 TAAATTTT 1
RESULT 256
abf37534/c
; TOIG of: abf37534 check: 6748 from: 1 to: 13
; ID AEF37534 standard; DNA: 13 BP.
; AC AEF37534;
; XX
; XX 21-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 137531 for detecting SNP TSC0034382.
; XX
; XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; XX Homo sapiens.
; OS

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; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1: SEQ ID 137531; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABI00010-ABI82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 7 A; 0 C; 2 G; 4 T; 0 other;
; XX
; ABF37534 Length: 13 September 17, 2003 14:26 Type: N Check: 6748 ..
; abf37534

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2746 AAATCTTTCT 2757
DB 12 AAATCTTTCT 1

RESULT 257
abf37535
; TOIG of: abf37535 check: 7036 from: 1 to: 13
; ID ABF37535 standard; DNA; 13 BP.
; XX
; AC ABF37535;
; XX
; DT 21-FEB-2002 (first entry)
; XX
; OS Oligonucleotide SEQ ID NO 137532 for detecting SNP TSC0034382.
; DE
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PT
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; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1: SEQ ID 137532; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABI00010-ABI82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 4 A; 2 C; 0 G; 7 T; 0 other;
; XX
; ABF37535 Length: 13 September 17, 2003 14:26 Type: N Check: 7036 ..
; abf37535

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2746 AAATCTTTCT 2757
DB 2 AAATCTTTCT 13

RESULT 258
abf40388
; TOIG of: abf40388 check: 7274 from: 1 to: 13
; ID ABF40388 standard; DNA; 13 BP.
; XX
; AC ABF40388;
; XX
; DT 21-FEB-2002 (first entry)
; XX
; OS Oligonucleotide SEQ ID NO 140385 for detecting SNP TSC0035188.
; DE
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
```

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; PT methylation status -
; XX
; PS Claim 1; SEQ ID 140385; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABT00010-ABT99989 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SQ Sequence 13 BP; 4 A; 0 C; 1 G; 8 T; 0 other;
; ABF40388 Length: 13 September 17, 2003 14:26 Type: N Check: 7274 ..
; abf40388
Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 2744 TAAATTCCTTT 2755
Db 1 TAAATTCCTTT 12
RESULT 259
abf40389/c
TOIG of: abf40389 check: 6725 from: 1 to: 13
; ID ABF40389 standard; DNA; 13 BP.
; XX
; AC ABF40389;
; XX
; DT 21-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 140386 for detecting SNP TSC0035188.
; XX
; SNF SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 140386; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABT00010-ABT99989 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.

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; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABT00010-ABT99989 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SQ Sequence 13 BP; 8 A; 1 C; 0 G; 4 T; 0 other;
; ABF40389 Length: 13 September 17, 2003 14:26 Type: N Check: 6725 ..
; abf40389
Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 2744 TAAATTCCTTT 2755
Db 13 TAAATTCCTTT 2
RESULT 260
abf43612/c
TOIG of: abf43612 check: 6951 from: 1 to: 13
; ID ABF43612 standard; DNA; 13 BP.
; XX
; AC ABF43612;
; XX
; DT 21-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 143609 for detecting SNP TSC0036052.
; XX
; SNF SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 143609; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABT00010-ABT99989 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.

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; XX Sequence 13 BP; 5 A; 0 C; 2 G; 6 T; 0 other;
; SQ ABR43612 Length: 13 September 17, 2003 14:26 Type: N Check: 6951 ..
; abf43612
Query Match          52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2743 ATAAATCTCTT 2754
   |||||
   13 ATAAATCTCTT 2
Db
RESULT 261
abf43613
; TOIG of: abf43613 check: 6696 from: 1 to: 13
; ID ABR43613 standard; DNA; 13 BP.
; XX
; AC ABR43613;
; XX
; DT 21-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 143610 for detecting SNP TSC0036052.
; XX
; SN SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-1B00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; XX
; DR Set of oligonucleotides, useful for diagnosis and cell typing, is
; XX designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 143610; 29pp + Sequence listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABR00010-ABR99989, ABH00010-ABH99989 and
; CC ABR00010-ABR82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 6 A; 2 C; 0 G; 5 T; 0 other;
; ABR43613 Length: 13 September 17, 2003 14:26 Type: N Check: 6696 ..
; abf43613
Query Match          52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
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Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2743 ATAAATCTCTT 2754
   |||||
   1 ATAAATCTCTT 12
Db
RESULT 262
abf44456/c
; TOIG of: abf44456 check: 6715 from: 1 to: 13
; ID ABR44456 standard; DNA; 13 BP.
; XX
; AC ABR44456;
; XX
; DT 21-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 144453 for detecting SNP TSC0036319.
; XX
; SN SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-1B00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; XX
; DR Set of oligonucleotides, useful for diagnosis and cell typing, is
; XX designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 144453; 29pp + Sequence listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABR00010-ABR99989, ABH00010-ABH99989 and
; CC ABR00010-ABR82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 8 A; 0 C; 1 G; 4 T; 0 other;
; ABR44456 Length: 13 September 17, 2003 14:26 Type: N Check: 6715 ..
; abf44456
Query Match          52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2744 TAAATCTCTT 2755
   |||||
   12 TAAATCTCTT 1
Db
RESULT 263
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abf44457
; TOIG of: abf44457 check: 7285 from: 1 to: 13
; ID ABE44457 standard; DNA; 13 BP.
; XX ABE44457;
; AC
; XX 21-FEB-2002 (first entry)
; DT
; DE Oligonucleotide SEQ ID NO 144454 for detecting SNP TSC0036319.
; XX
; KW SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS
; XX Homo sapiens.
; XX WO200177384-A2.
; XX 18-OCT-2001.
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; XX
; XX 07-APR-2000; 2000DE-1019173.
; XX
; XX (EPIC-) EPIDENOMICS AG.
; XX
; XX Olek A, Piepenbrock C, Berlin K;
; XX WPI: 2001-657177/75.
; XX
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; XX designed to detect single nucleotide polymorphisms and cytosine
; XX methylation status
; XX
; XX Claim 1; SEQ ID 144454; 29pp + Sequence Listing; German.
; PS
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; XX and cytosine methylation status in chemically pretreated genomic DNA. The
; XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; XX range of diseases including immune system, gastrointestinal, respiratory,
; XX central nervous system, cardiovascular and metabolic disorders. The
; XX oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; XX Sequence 13 BP; 4 A; 1 C; 0 G; 8 T; 0 other;
; SQ
; ABF44457 Length: 13 September 17, 2003 14:26 Type: N Check: 7285 ..
; abf44457

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2744 TAAATTCCTTTT 2755
DB 2 TAAATTCCTTTT 13

RESULT 264
abf53074/c
; TOIG of: abf53074 check: 6856 from: 1 to: 13
; ID ABF53074 standard; DNA; 13 BP.
; XX
; AC ABF53074;
; XX
; XX 21-FEB-2002 (first entry)
; DT
; DE Oligonucleotide SEQ ID NO 153072 for detecting SNP TSC0038689.
; XX
; KW SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS
; XX Homo sapiens.

; XX Oligonucleotide SEQ ID NO 153071 for detecting SNP TSC0038689.
; XX
; XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS
; XX Homo sapiens.
; XX WO200177384-A2.
; XX 18-OCT-2001.
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; XX
; XX 07-APR-2000; 2000DE-1019173.
; XX
; XX (EPIC-) EPIDENOMICS AG.
; XX
; XX Olek A, Piepenbrock C, Berlin K;
; XX WPI: 2001-657177/75.
; XX
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; XX designed to detect single nucleotide polymorphisms and cytosine
; XX methylation status
; XX
; XX Claim 1; SEQ ID 153071; 29pp + Sequence Listing; German.
; PS
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; XX and cytosine methylation status in chemically pretreated genomic DNA. The
; XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; XX range of diseases including immune system, gastrointestinal, respiratory,
; XX central nervous system, cardiovascular and metabolic disorders. The
; XX oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; XX Sequence 13 BP; 3 A; 0 C; 4 G; 6 T; 0 other;
; SQ
; ABF53074 Length: 13 September 17, 2003 14:26 Type: N Check: 6856 ..
; abf53074

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2739 CTCATTAATTT 2750
DB 12 CCCATTAATTT 1

RESULT 265
abf53075
; TOIG of: abf53075 check: 6543 from: 1 to: 13
; ID ABF53075 standard; DNA; 13 BP.
; XX
; AC ABF53075;
; XX
; XX 21-FEB-2002 (first entry)
; DT
; DE Oligonucleotide SEQ ID NO 153072 for detecting SNP TSC0038689.
; XX
; KW SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS
; XX Homo sapiens.
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; XX WO200177384-A2.
; PN
; PA
; PI
; PD 18-OCT-2001.
; PE
; PF 06-APR-2001; 2001WO-IB00713.
; PG
; PH
; PI (EPIG-) EPIGENOMICS AG.
; PA Olek A, Piepenbrock C, Berlin K;
; PI WPI; 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; PS Claim 1; SEQ ID 162041; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABR00010-ABR99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; CC
; CC Sequence 13 BP; 6 A; 4 C; 0 G; 3 T; 0 other;
; SO
; ABF53075 Length: 13 September 17, 2003 14:26 Type: N Check: 6543 ..
; abf53075
Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2739 CTCATATAAT 2750
DB 2 CCCAATAAAT 13
RESULT 266
abf62044/c
TOIG of: abf62044 check: 6743 from: 1 to: 13
; ID ABF62044 standard; DNA; 13 BP.
; XX
; AC ABF62044:
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 162041 for detecting SNP TSC0040776.
; XX
; KM SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PA
; PD 18-OCT-2001.
; PE
; PF 06-APR-2001; 2001WO-IB00713.
; PG
; PH
; PI WPI; 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; PS Claim 1; SEQ ID 162041; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABR00010-ABR99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; CC
; CC Sequence 13 BP; 6 A; 4 C; 0 G; 3 T; 0 other;
; SO
; ABF53075 Length: 13 September 17, 2003 14:26 Type: N Check: 6543 ..
; abf53075
```

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; XX (EPIG-) EPIGENOMICS AG.
; PN
; PA Olek A, Piepenbrock C, Berlin K;
; PI WPI; 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; PS Claim 1; SEQ ID 162041; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABR00010-ABR99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; CC
; CC Sequence 13 BP; 5 A; 0 C; 2 G; 6 T; 0 other;
; SO
; ABF62044 Length: 13 September 17, 2003 14:26 Type: N Check: 6743 ..
; abf62044
Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2739 CTCATATAAT 2750
DB 13 CTCATATAAT 2
RESULT 267
abf62045
TOIG of: abf62045 check: 6664 from: 1 to: 13
; ID ABF62045 standard; DNA; 13 BP.
; XX
; AC ABF62045:
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 162042 for detecting SNP TSC0040776.
; XX
; KM SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PA
; PD 18-OCT-2001.
; PE
; PF 06-APR-2001; 2001WO-IB00713.
; PG
; PH
; PI WPI; 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; PS Claim 1; SEQ ID 162041; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABR00010-ABR99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; CC
; CC Sequence 13 BP; 5 A; 0 C; 2 G; 6 T; 0 other;
; SO
; ABF62044 Length: 13 September 17, 2003 14:26 Type: N Check: 6743 ..
; abf62044
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; PR designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 162042; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; XX
; SQ Sequence 13 BP; 4 A; 2 C; 0 G; 5 T; 0 other;
; ABF62045 Length: 13 September 17, 2003 14:26 Type: N Check: 6664 ..
; abf62045

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2739 CTCATTAATTT 2750
Db 1 CTCATTAATTT 12

RESULT 268
abf68732/c
; TOIG of: abf68732 check: 7040 from: 1 to: 13
; ID ABF68732 standard; DNA; 13 BP.
; XX
; AC ABF68732;
; XX
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 168729 for detecting SNP TSC0042189.
; XX
; SNF: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PE 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 168729; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
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; CC Oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; SQ Sequence 13 BP; 5 A; 0 C; 2 G; 6 T; 0 other;
; ABF6732 Length: 13 September 17, 2003 14:26 Type: N Check: 7040 ..
; abf6732

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2445 AAAATCTTTTC 2756
Db 12 AAAATCTTTTC 1

RESULT 269
abf68733
; TOIG of: abf68733 check: 6774 from: 1 to: 13
; ID ABF68733 standard; DNA; 13 BP.
; XX
; AC ABF68733;
; XX
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 168730 for detecting SNP TSC0042189.
; XX
; SNF: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PE 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 168730; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
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; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 6 A; 2 C; 0 G; 5 T; 0 other;
; ABF68733 Length: 13 September 17, 2003 14:26 Type: N Check: 6774
; abf68733
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Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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OY 2745 AAAATTCCTTTC 2756
Db 2 AAAATTCCTTAC 13
```

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RESULT 270
abf72074/c
; TOIG of: abf72074 check: 7025 from: 1 to: 13
; ID ABF72074 standard; DNA; 13 BP.
; XX
; AC ABF72074;
; XX
; DT 22-FEB-2002 (first entry)
; DE oligonucleotide SEQ ID NO 172071 for detecting SNP TSC0042903.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
```

```
; OS Homo sapiens.
```

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; PN WO200177384-A2.
```

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; PD 18-OCT-2001.
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; PF 06-APR-2001; 2001WO-IB00713.
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; PR 07-APR-2000; 2000DE-1019173.
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; PA (EPIC-) EPIGENOMICS AG.
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; PI Olek A, Piepenbrock C, Berlin K;
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; PS WPI; 2001-657177/5.
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; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
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; PT designed to detect single nucleotide polymorphisms and cytosine
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; PT methylation status -
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; PS Claim 1; SEQ ID 172071; 29pp + Sequence Listing; German.
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```
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
```

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; SQ Sequence 13 BP; 5 A; 0 C; 2 G; 6 T; 0 other;
```

```
; ABF72074 Length: 13 September 17, 2003 14:26 Type: N Check: 7025
; abf72074
```

```
Query Match 52.0%; Score 10.4; DB 1; Length 13;
```

```
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
OY 2741 CAATAAATTCCT 2752
Db 12 CAATAAATTCCT 1
```

```
RESULT 271
abf72075
; TOIG of: abf72075 check: 6836 from: 1 to: 13
; ID ABF72075 standard; DNA; 13 BP.
; XX
; AC ABF72075;
; XX
; DT 22-FEB-2002 (first entry)
; DE oligonucleotide SEQ ID NO 172072 for detecting SNP TSC0042903.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
```

```
; OS Homo sapiens.
```

```
; PN WO200177384-A2.
```

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; PD 18-OCT-2001.
```

```
; PF 06-APR-2001; 2001WO-IB00713.
```

```
; PR 07-APR-2000; 2000DE-1019173.
```

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; PA (EPIC-) EPIGENOMICS AG.
```

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; PI Olek A, Piepenbrock C, Berlin K;
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; PS WPI; 2001-657177/5.
```

```
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
```

```
; PT designed to detect single nucleotide polymorphisms and cytosine
```

```
; PT methylation status -
```

```
; PS Claim 1; SEQ ID 172072; 29pp + Sequence Listing; German.
```

```
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
```

```
; SQ Sequence 13 BP; 6 A; 2 C; 0 G; 5 T; 0 other;
```

```
; ABF72075 Length: 13 September 17, 2003 14:26 Type: N Check: 6836
; abf72075
```

```
Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
OY 2741 CAATAAATTCCT 2752
Db 2 CAATAAATTCCT 13
```



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RESULT 272
abf73598/c
; TOIG of: abf73598 check: 6809 from: 1 to: 13
; ID ABF73598 standard; DNA: 13 BP.
; XX ABF73598;
; AC
; XX
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 173595 for detecting SNP TSC0043231.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS Claim 1; SEQ ID 173595; 29pp + Sequence Listing; German.
; XX
; DR WPI; 2001-657177/75.
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; designed to detect single nucleotide polymorphisms and cytosine
; methylation status -
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 173595; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; and cytosine methylation status in chemically pretreated genomic DNA. The
; oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; range of diseases including immune system, gastrointestinal, respiratory,
; central nervous system, cardiovascular and metabolic disorders. The
; oligomers are also used for detecting cell type differentiation.
; CC AB000010-AB000010-ABF99989, ABH00010-ABH99989 and
; CC AB000010-AB000010-ABF99989, ABH00010-ABH99989 and
; CC NOTE: The sequence data for this patent did not form part of the printed
; specification, but was obtained in electronic format from WIPO at
; ftp.wipo.int/pub/published_pct_sequences.
; CC
; CC Sequence 13 BP; 5 A; 0 C; 2 G; 6 T; 0 other;
; SO
; ABF73598 Length: 13 September 17, 2003 14:26 Type: N Check: 6809 ..
abf73598

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2741 CATTAAATTCCT 2752
Db 13 CTATAAATTCCT 2

RESULT 273
abf73599
; TOIG of: abf73599 check: 6642 from: 1 to: 13
; ID ABF73599 standard; DNA: 13 BP.
; XX
; AC ABF73599;
; KW
```

```
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 173596 for detecting SNP TSC0043231.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS Claim 1; SEQ ID 173596; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; and cytosine methylation status in chemically pretreated genomic DNA. The
; oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; range of diseases including immune system, gastrointestinal, respiratory,
; central nervous system, cardiovascular and metabolic disorders. The
; oligomers are also used for detecting cell type differentiation.
; CC AB000010-AB000010-ABF99989, ABH00010-ABH99989 and
; CC AB000010-AB000010-ABF99989, ABH00010-ABH99989 and
; CC NOTE: The sequence data for this patent did not form part of the printed
; specification, but was obtained in electronic format from WIPO at
; ftp.wipo.int/pub/published_pct_sequences.
; CC
; CC Sequence 13 BP; 6 A; 2 C; 0 G; 5 T; 0 other;
; SO
; ABF73599 Length: 13 September 17, 2003 14:26 Type: N Check: 6642 ..
abf73599

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2741 CATTAAATTCCT 2752
Db 1 CTATAAATTCCT 12

RESULT 274
abf76506/c
; TOIG of: abf76506 check: 6647 from: 1 to: 13
; ID ABF76506 standard; DNA: 13 BP.
; XX
; AC ABF76506;
; KW 22-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 176503 for detecting SNP TSC0043805.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; central nervous system; gastrointestinal; respiratory; immune; metabolic.
; KW
```

```

; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIDENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; PS Claim 1; SEQ ID 176503; 29bp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABH00010-ABH82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 5 A; 0 C; 3 G; 5 T; 0 other;
; XX
; ABF76506 Length: 13 September 17, 2003 14:26 Type: N Check: 6647 ..
; abf76506

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2739 CTCATTAAT 2750
Db 12 CTCATTAAT 1

RESULT 275
abf76507
; TOIG of: abf76507 check: 6629 from: 1 to: 13
; ID ABF76507 standard; DNA; 13 BP.
; XX
; AC ABF76507;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 176504 for detecting SNP TSC0043805.
; XX
; SNF: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR WPI; 2001-657177/75.

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; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIDENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; PS Claim 1; SEQ ID 176504; 29bp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABH00010-ABH82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 5 A; 3 C; 0 G; 5 T; 0 other;
; XX
; ABF76507 Length: 13 September 17, 2003 14:26 Type: N Check: 6629 ..
; abf76507

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2739 CTCATTAAT 2750
Db 2 CTCATTAAT 13

RESULT 276
abf81158/c
; TOIG of: abf81158 check: 6724 from: 1 to: 13
; ID ABF81158 standard; DNA; 13 BP.
; XX
; AC ABF81158;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 181155 for detecting SNP TSC004967.
; XX
; SNF: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIDENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.

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```

; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; PS
; XX Claim 1; SEQ ID 181155; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABG99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; CC
; XX Sequence 13 BP; 7 A; 0 C; 1 G; 5 T; 0 other;
; ABF81158 Length: 13 September 17, 2003 14:26 Type: N Check: 6724 ..
; abf81158
;
; Query Match 52.0%; Score 10.4; DB 1; Length 13;
; Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; OY 2744 TAAATTCCTTT 2755
; Db 12 TAAATTCCTTT 1
;
; RESULT 277
; abf81159
; TOIG of: abf81159 check: 6940 from: 1 to: 13
;
; ID ABR81159 standard; DNA; 13 BP.
; AC ABR81159;
; XX
; XX 22-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 181156 for detecting SNP TSC0004967.
; XX
; XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; XX WO200177384-A2.
; XX
; XX 18-OCT-2001.
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; XX
; XX 07-APR-2000; 2000DE-1019173.
; XX
; XX (EPIC-) EPIGENOMICS AG.
; XX
; XX Olek A, Piepenbrock C, Berlin K;
; PI
; XX WPI; 2001-657177/75.
; DR
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; PS
; XX Claim 1; SEQ ID 181156; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)

```

```

; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABG99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; CC
; XX Sequence 13 BP; 5 A; 1 C; 0 G; 7 T; 0 other;
; ABF81159 Length: 13 September 17, 2003 14:26 Type: N Check: 6940 ..
; abf81159
;
; Query Match 52.0%; Score 10.4; DB 1; Length 13;
; Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; OY 2744 TAAATTCCTTT 2755
; Db 2 TAAATTCCTTT 13
;
; RESULT 278
; abf81172/c
; TOIG of: abf81172 check: 7009 from: 1 to: 13
;
; ID ABR85172 standard; DNA; 13 BP.
; AC ABR85172;
; XX
; XX 22-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 185169 for detecting SNP TSC0045660.
; XX
; XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; XX WO200177384-A2.
; XX
; XX 18-OCT-2001.
; XX
; XX 06-APR-2001; 2001WO-AB00713.
; XX
; XX 07-APR-2000; 2000DE-1019173.
; XX
; XX (EPIC-) EPIGENOMICS AG.
; XX
; XX Olek A, Piepenbrock C, Berlin K;
; PI
; XX WPI; 2001-657177/75.
; DR
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; PS
; XX Claim 1; SEQ ID 185169; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABG99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed

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CC Specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 13 BP; 3 A; 0 C; 2 G; 8 T; 0 other;
ABF85173 Length: 13 September 17, 2003 14:26 Type: N Check: 7009 ..
abf85173

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2739 CTCATATAATT 2750
Db 13 CTCATAAAATT 2

RESULT 279
abf85173
TOIG of: abf85173 check: 6398 from: 1 to: 13
ID ABF85173 standard; DNA; 13 BP.
AC ABF85173;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 185170 for detecting SNP TSC0045660.
XX
SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PE 06-APR-2001; 2001WO-IB00713.
XX
PR 07-APR-2000; 2000DE-1019173.
XX
PA (EPIC-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
DR WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
PS Claim 1; SEQ ID 185170; 29pp + Sequence listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABT00010-ABT82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 13 BP; 8 A; 2 C; 0 G; 3 T; 0 other;
ABF85173 Length: 13 September 17, 2003 14:26 Type: N Check: 6398 ..
abf85173

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2739 CTCATATAATT 2750
Db 1 CTCATAAAATT 12

RESULT 280
abf89598/c
TOIG of: abf89598 check: 6968 from: 1 to: 13
ID ABF89598 standard; DNA; 13 BP.
AC ABF89598;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 189595 for detecting SNP TSC0046645.
XX
SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PE 06-APR-2001; 2001WO-IB00713.
XX
PR 07-APR-2000; 2000DE-1019173.
XX
PA (EPIC-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
DR WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
PS Claim 1; SEQ ID 189595; 29pp + Sequence listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABT00010-ABT82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 13 BP; 3 A; 0 C; 2 G; 8 T; 0 other;
ABF89598 Length: 13 September 17, 2003 14:26 Type: N Check: 6968 ..
abf89598

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2740 TCATATAATTTC 2751
Db 13 TCATATAATTTC 2

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RESULT 281
abf89599
; TOIG of: abf89599 check: 6247 from: 1 to: 13
; ID ABE89599 standard; DNA: 13 BP.
; AC ABE89599;
; XX
; XX 22-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 189596 for detecting SNP TSC0046645.
; XX
; XX SNP: single nucleotide polymorphism; human; diagnosis: PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; PF 07-APR-2000; 2000DE-1019173.
; PR (EPIG-) EPIGENOMICS AG.
; PA
; XX Olek A, Piepenbrock C, Berlin K;
; PI WPI: 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PR methylation status -
; XX
; PS Claim 1: SEQ ID 189596; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989 and
; CC ABF00010-ABF82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; CC
; XX Sequence 13 BP; 8 A; 2 C; 0 G; 3 T; 0 other;
; SQ
; ABF89599 Length: 13 September 17, 2003 14:26 Type: N Check: 6247
; abf89599

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 2740 TCAATAAAATTC 2751
Db 1 TCAATAAAATTC 12

RESULT 282
abf93180/c
; TOIG of: abf93180 check: 6766 from: 1 to: 13
; ID ABF93180 standard; DNA: 13 BP.
; XX
; XX ABF93180;

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; XX 22-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 193177 for detecting SNP TSC0000970.
; XX
; XX SNP: single nucleotide polymorphism; human; diagnosis: PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; PF 07-APR-2000; 2000DE-1019173.
; PR (EPIG-) EPIGENOMICS AG.
; PA
; XX Olek A, Piepenbrock C, Berlin K;
; PI WPI: 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PR methylation status -
; XX
; PS Claim 1: SEQ ID 193177; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989 and
; CC ABF00010-ABF82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; CC
; XX Sequence 13 BP; 6 A; 0 C; 3 G; 4 T; 0 other;
; SQ
; ABF93180 Length: 13 September 17, 2003 14:26 Type: N Check: 6766
; abf93180

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 2746 AAATCTTTTCT 2757
Db 13 AAATCTTTTCT 2

RESULT 283
abf93181
; TOIG of: abf93181 check: 6849 from: 1 to: 13
; ID ABF93181 standard; DNA: 13 BP.
; AC ABF93181;
; XX
; XX 22-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 193178 for detecting SNP TSC0000970.
; XX
; XX SNP: single nucleotide polymorphism; human; diagnosis: PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.

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; XX Homo sapiens.
; OS
; XX
; XX WO200177384-A2.
; PN
; XX
; XX 18-OCT-2001.
; PD
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; PE
; XX
; XX 07-APR-2000; 2000DE-1019173.
; PR
; XX
; XX (EPIC-) EPIGENOMICS AG.
; PA
; XX
; XX Olek A, Piepenbrock C, Berlin K;
; PI
; XX
; XX WPI; 2001-65717/75.
; DR
; XX
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; PS
; XX Claim 1; SEQ ID 194178; 29pp + Sequence Listing; German.
; PS
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; XX Sequence 13 BP; 4 A; 3 C; 0 G; 5 T; 0 other;
; SQ
; XX
; XX ABF93181 Length: 13 September 17, 2003 14:26 Type: N Check: 6849 ..
; abf93181
;
; Query Match 52.0%; Score 10.4; DB 1; Length 13;
; Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; QY 2746 AATTCCTTCT 2757
; Db 1 AATTCCTATCT 12
;
; RESULT 284
; abf99486/c
; TOIG of: abf99486 check: 7132 from: 1 to: 13
;
; ID ABF99486 standard; DNA; 13 BP.
; AC ABF99486;
; DT 22-FEB-2002 (first entry)
; XX
; XX Oligonucleotide SEQ ID NO 199483 for detecting SNP TSC0049081.
; DE
; XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; XX Homo sapiens.
; OS
; XX
; XX WO200177384-A2.
; PN
; XX
; XX 18-OCT-2001.
; PD
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; PE
; XX
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; XX
; XX 07-APR-2000; 2000DE-1019173.
; PR
; XX
; XX (EPIC-) EPIGENOMICS AG.
; PA
; XX
; XX Olek A, Piepenbrock C, Berlin K;
; PI
; XX
; XX WPI; 2001-65717/75.
; DR
; XX
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; PS
; XX Claim 1; SEQ ID 199483; 29pp + Sequence Listing; German.
; PS
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; XX Sequence 13 BP; 3 A; 0 C; 2 G; 8 T; 0 other;
; SQ
; XX
; XX ABF99486 Length: 13 September 17, 2003 14:26 Type: N Check: 7132 ..
; abf99486
;
; Query Match 52.0%; Score 10.4; DB 1; Length 13;
; Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; QY 2741 CAATAAATCT 2752
; Db 13 CAATAAATCT 2
;
; RESULT 285
; abf99487
; TOIG of: abf99487 check: 6433 from: 1 to: 13
;
; ID ABF99487 standard; DNA; 13 BP.
; AC ABF99487;
; DT 22-FEB-2002 (first entry)
; XX
; XX Oligonucleotide SEQ ID NO 199484 for detecting SNP TSC0049081.
; DE
; XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; XX Homo sapiens.
; OS
; XX
; XX WO200177384-A2.
; PN
; XX
; XX 18-OCT-2001.
; PD
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; PE
; XX
; XX 07-APR-2000; 2000DE-1019173.
; PR
; XX
; XX (EPIC-) EPIGENOMICS AG.
; PA
; XX
; XX Olek A, Piepenbrock C, Berlin K;
; PI
; XX
; XX WPI; 2001-65717/75.
; DR
```

XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
PS Claim 1, SEQ ID 199484; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC AB100010-AB182073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 13 BP; 8 A; 2 C; 0 G; 3 T; 0 other;
ABF99487 Length: 13 September 17, 2003 14:26 Type: N Check: 6433 ..
abf99487
Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2741 CATTAAATCT 2752
Db 1 CATTAAATCT 12
RESULT 286
abH01486
TOIG of: abH01486 check: 6732 from: 1 to: 13
ID ABH01486 standard; DNA; 13 BP.
XX
AC ABH01486;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 201463 for detecting SNP TSC0049546.
XX
KW SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB00713.
XX
PR 07-APR-2000; 2000DE-1019173.
XX
PA (EPIG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
PI WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
PS Claim 1, SEQ ID 201463; 29pp + Sequence Listing; German.
CC This invention describes novel oligonucleotide primers or peptide nucleic

CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC AB100010-AB182073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 13 BP; 8 A; 0 C; 0 G; 5 T; 0 other;
ABH01486 Length: 13 September 17, 2003 14:26 Type: N Check: 6732 ..
abH01486
Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2742 AATTAATCTT 2753
Db 1 AATTAATCTT 12
RESULT 287
abH01487/c
TOIG of: abH01487 check: 7131 from: 1 to: 13
ID ABH01487 standard; DNA; 13 BP.
XX
AC ABH01487;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 201464 for detecting SNP TSC0049546.
XX
KW SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB00713.
XX
PR 07-APR-2000; 2000DE-1019173.
XX
PA (EPIG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
PI WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
PS Claim 1, SEQ ID 201464; 29pp + Sequence Listing; German.
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC AB100010-AB182073 represent the oligomers described in the invention.


```

RESULT 290
abn01886/c
; TOIG of: abn01886 check: 6863 from: 1 to: 13
; ID ABH01886 standard; DNA; 13 BP.
; AC ABH01886;
; XX
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 201863 for detecting SNP TSC0049630.
; XX
; DE Oligonucleotide SEQ ID NO 201863 for detecting SNP TSC0049630.
; XX
; DE SNP: single nucleotide polymorphism; human; diagnosis: PNA; cancer: CNS;
; DE peptide nucleic acid; cytosine methylation; cardiovascular; primer: ss;
; DE central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; XX
; DE WO20017384-A2.
; XX
; DE 18-OCT-2001.
; XX
; DE 06-APR-2001; 2001WO-IB00713.
; XX
; DE 07-APR-2000; 2000DE-1019173.
; XX
; DE (EPIC-) EPIGENOMICS AG.
; XX
; DE Olek A. Piepenbrock C, Berlin K;
; XX
; DE WPI; 2001-657177/75.
; XX
; DE Set of oligonucleotides, useful for diagnosis and cell typing, is
; DE designed to detect single nucleotide polymorphisms and cytosine
; DE methylation status.
; XX
; DE Claim 1; SEQ ID 201863; 29pp + Sequence Listing; German.
; XX
; DE This invention describes novel oligonucleotide primers or peptide nucleic
; DE acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; DE and cytosine methylation status in chemically pretreated genomic DNA. The
; DE oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; DE range of diseases including immune system, gastrointestinal, respiratory,
; DE central nervous system, cardiovascular and metabolic disorders. The
; DE oligomers are also used for detecting cell type differentiation.
; DE CC ABC00010-ABC99989, ABP00010-ABP99989, ABH00010-ABH99989 and
; DE CC ABT00010-ABT2073 represent the oligomers described in the invention.
; DE CC NOTE: The sequence data for this patent did not form part of the printed
; DE specification, but was obtained in electronic format from WIPO at
; DE ftp.wipo.int/pub/published_pcr_sequences.
; XX
; DE Sequence 13 BP; 5 A; 0 C; 4 G; 4 T; 0 other;
; XX
; ABH01886 Length: 13 September 17, 2003 14:26 Type: N Check: 6863
; abn01886
;
Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
OY 2745 AAAATCTCTTTC 2756
;
; Db 12 AAAATCTCTTTC 1
;
RESULT 291
abn01887
; TOIG of: abn01887 check: 6851 from: 1 to: 13
; ID ABH01887 standard; DNA; 13 BP.
; XX

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```

; AC ABH01887;
; XX
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 201864 for detecting SNP TSC0049630.
; XX
; DE SNP: single nucleotide polymorphism; human; diagnosis: PNA; cancer: CNS;
; DE peptide nucleic acid; cytosine methylation; cardiovascular; primer: ss;
; DE central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; XX
; DE WO20017384-A2.
; XX
; DE 18-OCT-2001.
; XX
; DE 06-APR-2001; 2001WO-IB00713.
; XX
; DE 07-APR-2000; 2000DE-1019173.
; XX
; DE (EPIC-) EPIGENOMICS AG.
; XX
; DE Olek A. Piepenbrock C, Berlin K;
; XX
; DE WPI; 2001-657177/75.
; XX
; DE Set of oligonucleotides, useful for diagnosis and cell typing, is
; DE designed to detect single nucleotide polymorphisms and cytosine
; DE methylation status.
; XX
; DE Claim 1; SEQ ID 201864; 29pp + Sequence Listing; German.
; XX
; DE This invention describes novel oligonucleotide primers or peptide nucleic
; DE acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; DE and cytosine methylation status in chemically pretreated genomic DNA. The
; DE oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; DE range of diseases including immune system, gastrointestinal, respiratory,
; DE central nervous system, cardiovascular and metabolic disorders. The
; DE oligomers are also used for detecting cell type differentiation.
; DE CC ABC00010-ABC99989, ABP00010-ABP99989, ABH00010-ABH99989 and
; DE CC ABT00010-ABT2073 represent the oligomers described in the invention.
; DE CC NOTE: The sequence data for this patent did not form part of the printed
; DE specification, but was obtained in electronic format from WIPO at
; DE ftp.wipo.int/pub/published_pcr_sequences.
; XX
; DE Sequence 13 BP; 4 A; 4 C; 0 G; 5 T; 0 other;
; XX
; ABH01887 Length: 13 September 17, 2003 14:26 Type: N Check: 6851
; abn01887
;
Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
OY 2745 AAAATCTCTTTC 2756
;
; Db 2 AAAATCTCTTTC 13
;
RESULT 292
abn07922/c
; TOIG of: abn07922 check: 6563 from: 1 to: 13
; ID ABH07922 standard; DNA; 13 BP.
; AC ABH07922;
; XX
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 207899 for detecting SNP TSC0050840.
; XX
; DE SNP: single nucleotide polymorphism; human; diagnosis: PNA; cancer: CNS;
; DE peptide nucleic acid; cytosine methylation; cardiovascular; primer: ss;
; XX

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; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX Homo sapiens.
; OS
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; PE
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; DR
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; PS Claim 1; SEQ ID 207899; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABR00010-ABR99989, ABH00010-ABH99989 and
; CC ABH00010-ABH82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 8 A; 0 C; 2 G; 3 T; 0 other;
; ABH07922 Length: 13 September 17, 2003 14:26 Type: N Check: 6563 ..
; abh07922
Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 2744 TAAAAATCTTTT 2755
DB 12 TAAACTTCTTTT 1
RESULT 293
abh07923
; TOIG of: abh07923 check: 7161 from: 1 to: 13
; ID ABH07923 standard; DNA; 13 BP.
; XX
; AC ABH07923:
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 207900 for detecting SNP TSC0050840.
; XX
; SN SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.

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; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; DR
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; PS Claim IV SEQ ID 207900; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABR00010-ABR99989, ABH00010-ABH99989 and
; CC ABH00010-ABH82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 3 A; 2 C; 0 G; 8 T; 0 other;
; ABH07923 Length: 13 September 17, 2003 14:26 Type: N Check: 7161 ..
; abh07923
Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 2744 TAAAAATCTTTT 2755
DB 2 TAAACTTCTTTT 13
RESULT 294
abh28336/C
; TOIG of: abh28336 check: 6465 from: 1 to: 13
; ID ABH28336 standard; DNA; 13 BP.
; XX
; AC ABH28336:
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 228313 for detecting SNP TSC0055673.
; XX
; SN SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PE
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;

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; DR WPI: 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 228313; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989 and
; CC ABH00010-ABH99989 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 8 A; 0 C; 3 G; 2 T; 0 other;
;
; ABH28336 Length: 13 September 17, 2003 14:26 Type: N Check: 6465 ..
; abh28336
;
; Query Match 52.0%; Score 10.4; DB 1; Length 13;
; Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; OY 2746 AATTCCTTCT 2757
; Db 12 AATTCCTTCT 1
;
; RESULT 295
; abh28337
; TOIG of: abh28337 check: 7190 from: 1 to: 13
;
; ID ABH28337 standard; DNA; 13 BP.
; XX
; AC ABH28337;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 228314 for detecting SNP TSC0055673.
; XX
; SNF: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; PS WPI: 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 228314; 29pp + Sequence Listing; German.

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```

; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989 and
; CC ABH00010-ABH99989 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 2 A; 3 C; 0 G; 8 T; 0 other;
;
; ABH28337 Length: 13 September 17, 2003 14:26 Type: N Check: 7190 ..
; abh28337
;
; Query Match 52.0%; Score 10.4; DB 1; Length 13;
; Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; OY 2746 AATTCCTTCT 2757
; Db 2 AATTCCTTCT 13
;
; RESULT 296
; abh28380/c
; TOIG of: abh28380 check: 6842 from: 1 to: 13
;
; ID ABH28380 standard; DNA; 13 BP.
; XX
; AC ABH28380;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 228357 for detecting SNP TSC0004658.
; XX
; SNF: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; PS WPI: 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 228357; 29pp + Sequence Listing; German.
; CC
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989 and

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CC AB100010-AB182073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
CC
CC Sequence 13 BP; 5 A; 0 C; 1 G; 7 T; 0 other;
CC
ABH28380 Length: 13 September 17, 2003 14:26 Type: N Check: 6842 ..
ABH28380

Query Match
Best Local Similarity 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2739 CTCATTAATAATT 2750
DB 12 CTCATTAATAATT 1

RESULT 297
ABH28381 check: 6603 from: 1 to: 13
TOIG of: ABH28381 standard; DNA; 13 BP.
ID ABH28381 standard; DNA; 13 BP.
AC ABH28381;
XX
XX 22-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 228358 for detecting SNP TSC0004658.
XX
XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPIC-) EPIDENOMICS AG.
XX
XX Olek A, Plepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status
XX
XX Claim 1; SEQ ID 228358; 29pp + Sequence listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX
XX ABC00010-ABC99989, ABR00010-ABF99989, ABH00010-ABH99989 and
XX AB100010-AB182073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 13 BP; 7 A; 1 C; 0 G; 5 T; 0 other;
XX
ABH28381 Length: 13 September 17, 2003 14:26 Type: N Check: 6603 ..

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ABH28381

Query Match
Best Local Similarity 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2739 CTCATTAATAATT 2750
DB 2 CTCATTAATAATT 13

RESULT 298
ABH28386/C
ABH28386/C check: 6730 from: 1 to: 13
TOIG of: ABH28386 standard; DNA; 13 BP.
ID ABH28386 standard; DNA; 13 BP.
AC ABH28386;
XX
XX 22-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 228363 for detecting SNP TSC0055692.
XX
XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPIC-) EPIDENOMICS AG.
XX
XX Olek A, Plepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status
XX
XX Claim 1; SEQ ID 228363; 29pp + Sequence listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX
XX ABC00010-ABC99989, ABR00010-ABF99989, ABH00010-ABH99989 and
XX AB100010-AB182073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 13 BP; 5 A; 0 C; 2 G; 6 T; 0 other;
XX
ABH28386 Length: 13 September 17, 2003 14:26 Type: N Check: 6730 ..
ABH28386

Query Match
Best Local Similarity 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2739 CTCATTAATAATT 2750
DB 11 CTCATTAATAATT 11

```

```

Db      12 CTTAATATAATT 1
RESULT 299
abh28387
TOIG of: abh28387 check: 6662 from: 1 to: 13
; ID ABH28387 standard; DNA: 13 BP.
; XX
; AC ABH28387;
; XX
; DT 22-FEB-2002 (first entry)
; OS Homo sapiens.
; DE Oligonucleotide SEQ ID NO 228364 for detecting SNP TSC0055692.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; DE WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIDENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; designed to detect single nucleotide polymorphisms and cytosine
; methylation status -
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 228364; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; and cytosine methylation status in chemically pretreated genomic DNA. The
; oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; range of diseases including immune system, gastrointestinal, respiratory,
; central nervous system, cardiovascular and metabolic disorders. The
; oligomers are also used for detecting cell type differentiation.
; CC AB000010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB102073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; specification, but was obtained in electronic format from WIPO at
; ftp.wipo.int/pub/published_pct_sequences.
; CC
; XX Sequence 13 BP; 6 A; 2 C; 0 G; 5 T; 0 other:
; SQ
; ABH28387 Length: 13 September 11, 2003 14:26 Type: N Check: 6662 ..
; abh28387

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2739 CTCATATAATT 2750
11 | | | | | | | |
12 CTTAATATAATT 13

RESULT 300
abh31186/c
TOIG of: abh31186 check: 6849 from: 1 to: 13
; ID ABH31186 standard; DNA: 13 BP.

```

```

; XX ABH31186;
; AC
; DT 22-FEB-2002 (first entry)
; OS Homo sapiens.
; DE Oligonucleotide SEQ ID NO 231163 for detecting SNP TSC0056373.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; DE WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIDENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; designed to detect single nucleotide polymorphisms and cytosine
; methylation status -
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 231163; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; and cytosine methylation status in chemically pretreated genomic DNA. The
; oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; range of diseases including immune system, gastrointestinal, respiratory,
; central nervous system, cardiovascular and metabolic disorders. The
; oligomers are also used for detecting cell type differentiation.
; CC AB000010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB102073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; specification, but was obtained in electronic format from WIPO at
; ftp.wipo.int/pub/published_pct_sequences.
; CC
; XX Sequence 13 BP; 6 A; 0 C; 2 G; 5 T; 0 other:
; SQ
; ABH31186 Length: 13 September 17, 2003 14:26 Type: N Check: 6849 ..
; abh31186

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2742 AATAAATCTT 2753
12 | | | | | | | |
13 AATAAATCTT 1

RESULT 301
abh31187
TOIG of: abh31187 check: 6882 from: 1 to: 13
; ID ABH31187 standard; DNA: 13 BP.
; XX
; AC ABH31187;
; XX
; DT 22-FEB-2002 (first entry)
; OS
; DE Oligonucleotide SEQ ID NO 231164 for detecting SNP TSC0056373.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;

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; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; XX WO200177384-A2.
; PD 18-OCT-2001.
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; XX
; XX (EPIC-) EPIGENOMICS AG.
; PA Olek A, Piepenbrock C, Berlin K;
; PI WPI; 2001-657177/75.
; DR
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; PS
; PS Claim 1; SEQ ID 231164; 29pp + Sequence listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AAC00010-ABG99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABT00010-ABT82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 5 A; 2 C; 0 G; 6 T; 0 other;
; ABH31187 Length: 13 September 17, 2003 14:26 Type: N Check: 6882 ..
; abh31187
Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2742 AATAAATTCCTT 2753
| | | | |
Db 2 AATAACATTCCTT 13
RESULT 302
abh31188/C
; TOIG of: abh31188 check: 6807 from: 1 to: 13
; ID ABH31188 standard; DNA; 13 BP.
; XX
; AC ABH31188;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 231165 for detecting SNP TSC0056373.
; XX
; KM SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; XX WO200177384-A2.
; PN
; XX
; PD 18-OCT-2001.

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; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; XX (EPIC-) EPIGENOMICS AG.
; PA Olek A, Piepenbrock C, Berlin K;
; PI WPI; 2001-657177/75.
; DR
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; PS
; PS Claim 1; SEQ ID 231165; 29pp + Sequence listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AAC00010-ABG99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABT00010-ABT82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 1 A; 0 C; 1 G; 5 T; 0 other;
; ABH31188 Length: 13 September 17, 2003 14:26 Type: N Check: 6807 ..
; abh31188
Query Match 58.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2742 AATAAATTCCTT 2753
| | | | |
Db 12 AATAATATTCCTT 1
RESULT 303
abh31189
; TOIG of: abh31189 check: 7001 from: 1 to: 13
; ID ABH31189 standard; DNA; 13 BP.
; XX
; AC ABH31189;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 231166 for detecting SNP TSC0056373.
; XX
; KM SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; XX WO200177384-A2.
; PN
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; XX 07-APR-2000; 2000DE-1019173.
; PR
; XX (EPIC-) EPIGENOMICS AG.
; PA Olek A, Piepenbrock C, Berlin K;
; PI

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; XX WPI: 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; PS
; XX Claim 1: SEQ ID 231166; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-AB000010-ABF9989, ABF00010-ABF9989, ABH00010-ABH9989 and
; CC ABH00010-ABH9989 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; CC
; CC SQ Sequence 13 BP; 5 A; 1 C; 0 G; 7 T; 0 other;
; ABH31189 Length: 13 September 17, 2003 14:26 Type: N Check: 7001 ..
; abh31189
;
; Query Match 58.0%; Score 10.4; DB 1; Length 13;
; Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; QY 2742 AATAAATTCCT 2753
; Db 2 AATAAATTCCT 13
;
; RESULT 304
; abh32758/c
; TOIG of: abh32758 check: 7084 from: 1 to: 13
;
; ID ABH32758 standard; DNA; 13 BP.
; AC ABH32758;
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 232735 for detecting SNP TSC0009565.
; XX
; XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIG-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI: 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; PS Claim 1: SEQ ID 232735; 29pp + Sequence Listing; German.

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; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-AB000010-ABF9989, ABF00010-ABF9989, ABH00010-ABH9989 and
; CC ABH00010-ABH9989 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; CC
; CC SQ Sequence 13 BP; 4 A; 0 C; 3 G; 6 T; 0 other;
; ABH32758 Length: 13 September 17, 2003 14:26 Type: N Check: 7084 ..
; abh32758
;
; Query Match 52.0%; Score 10.4; DB 1; Length 13;
; Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; QY 2742 AATAAATTCCT 2753
; Db 13 AATAAATTCCT 2
;
; RESULT 305
; abh32759
; TOIG of: abh32759 check: 6591 from: 1 to: 13
;
; ID ABH32759 standard; DNA; 13 BP.
; AC ABH32759;
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 232736 for detecting SNP TSC0009565.
; XX
; XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIG-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI: 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; PS Claim 1: SEQ ID 232736; 29pp + Sequence Listing; German.
; CC
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.

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CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABH00010-ABH82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 13 BP; 6 A; 3 C; 0 G; 4 T; 0 other;
ABH32759 Length: 13 September 17, 2003 14:26 Type: N Check: 6591
abH32759
Query Match
Best Local Similarity 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2742 AATTAATAATTCCT 2753
1 AATTAATAATTCCT 12
DB
RESULT 306
abH34308/c
TOIG of: abH34308 Check: 6979 from: 1 to: 13
ID ABH34308 standard; DNA; 13 BP.
XX
AC ABH34308;
XX
XX 22-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 234285 for detecting SNP TSC0057173.
XX
XX
KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB00713.
XX
PR 07-APR-2000; 2000DE-1019173.
XX
PA (EPIC-) EPIDENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
DR WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
PS Claim 1; SEQ ID 234285; 29pp + Sequence listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX ABH00010-ABH82073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 13 BP; 6 A; 0 C; 0 G; 7 T; 0 other;
```

```
ABH34308 Length: 13 September 17, 2003 14:26 Type: N Check: 6979
abH34308
Query Match
Best Local Similarity 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2742 AATTAATAATTCCT 2753
12 AATTAATAATTCCT 1
DB
RESULT 307
abH34309
TOIG of: abH34309 Check: 6846 from: 1 to: 13
ID ABH34309 standard; DNA; 13 BP.
XX
AC ABH34309;
XX
XX 22-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 234286 for detecting SNP TSC0057173.
XX
XX
KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB00713.
XX
PR 07-APR-2000; 2000DE-1019173.
XX
PA (EPIC-) EPIDENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
DR WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
PS Claim 1; SEQ ID 234286; 29pp + Sequence listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX ABH00010-ABH82073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 13 BP; 7 A; 0 C; 0 G; 6 T; 0 other;
ABH34309 Length: 13 September 17, 2003 14:26 Type: N Check: 6846
abH34309
Query Match
Best Local Similarity 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2742 AATTAATAATTCCT 2753
```


Db 2 AATAAAATCTAT 13

RESULT 308
abhh39196/c
TOIG of: abhh39196 check: 6964 from: 1 to: 13

ID ABH39196 standard; DNA; 13 BP.

AC ABH39196;

DT 22-FEB-2002 (first entry)

DE Oligonucleotide SEQ ID NO 239173 for detecting SNP TSC0058317.

SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;

peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

central nervous system; gastrointestinal; respiratory; immune; metabolic.

OS Homo sapiens.

PN WO200177384-A2.

PD 18-OCT-2001.

PF 06-APR-2001; 2001WO-IB00713.

PR 07-APR-2000; 2000DE-1019173.

PA (EPIC-) EPIGENOMICS AG.

PI Olek A, Piepenbrock C, Berlin K;

PS WPI: 2001-65717/75.

PT Set of oligonucleotides, useful for diagnosis and cell typing, is

designed to detect single nucleotide polymorphisms and cytosine

methylation status -

Claim 1; SEQ ID 239173; 29pp + Sequence Listing: German.

This invention describes novel oligonucleotide primers or peptide nucleic

acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)

and cytosine methylation status in chemically pretreated genomic DNA. The

oligonucleotides are used for diagnosis and/or prognosis of cancer and a

range of diseases including immune system, gastrointestinal, respiratory,

central nervous system, cardiovascular and metabolic disorders. The

oligomers are also used for detecting cell type differentiation.

CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and

ABIO0010-ABIO82073 represent the oligomers described in the invention.

NOTE: The sequence data for this patent did not form part of the printed

specification, but was obtained in electronic format from WIPO at

ftp.wipo.int/pub/published_pct_sequences.

Sequence 13 BP; 5 A; 0 C; 2 G; 6 T; 0 other;

ABH39196 Length: 13 September 17, 2003 14:26 Type: N Check: 6964 ..

abhh39196

Query Match 52.0%; Score 10.4; DB 1; Length 13;

Best Local Similarity 91.7%; Pred. No. 1.2e+02;

Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2742 AATAAAATCTCT 2753

Db 12 AATAAAATCTCT 1

RESULT 309

abhh39197

TOIG of: abhh39197 check: 6698 from: 1 to: 13

ID ABH39197 standard; DNA; 13 BP.

AC ABH39197;

DT 22-FEB-2002 (first entry)

DE Oligonucleotide SEQ ID NO 239174 for detecting SNP TSC0058317.

SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;

peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

central nervous system; gastrointestinal; respiratory; immune; metabolic.

OS Homo sapiens.

PN WO200177384-A2.

PD 18-OCT-2001.

PF 06-APR-2001; 2001WO-IB00713.

PR 07-APR-2000; 2000DE-1019173.

PA (EPIC-) EPIGENOMICS AG.

PI Olek A, Piepenbrock C, Berlin K;

PS WPI: 2001-65717/75.

PT Set of oligonucleotides, useful for diagnosis and cell typing, is

designed to detect single nucleotide polymorphisms and cytosine

methylation status -

Claim 1; SEQ ID 239174; 29pp + Sequence Listing: German.

This invention describes novel oligonucleotide primers or peptide nucleic

acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)

and cytosine methylation status in chemically pretreated genomic DNA. The

oligonucleotides are used for diagnosis and/or prognosis of cancer and a

range of diseases including immune system, gastrointestinal, respiratory,

central nervous system, cardiovascular and metabolic disorders. The

oligomers are also used for detecting cell type differentiation.

CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and

ABIO0010-ABIO82073 represent the oligomers described in the invention.

NOTE: The sequence data for this patent did not form part of the printed

specification, but was obtained in electronic format from WIPO at

ftp.wipo.int/pub/published_pct_sequences.

Sequence 13 BP; 6 A; 2 C; 0 G; 5 T; 0 other;

ABH39197 Length: 13 September 17, 2003 14:26 Type: N Check: 6698 ..

abhh39197

Query Match 52.0%; Score 10.4; DB 1; Length 13;

Best Local Similarity 91.7%; Pred. No. 1.2e+02;

Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2742 AATAAAATCTCT 2753

Db 2 AATAAAATCTCT 13

RESULT 310

abhh40460/c

TOIG of: abhh40460 check: 6825 from: 1 to: 13

ID ABH40460 standard; DNA; 13 BP.

AC ABH40460;

DT 22-FEB-2002 (first entry)

DE Oligonucleotide SEQ ID NO 240437 for detecting SNP TSC0005863.

```

; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; PN WO20017384-A2.
; PD 18-OCT-2001.
; PE 06-APR-2001; 2001WO-IB00713.
; PF 07-APR-2000; 2000DE-1019173.
; PR (EPIC-) EPIGENOMICS AG.
; PA Olek A, Piepenbrock C, Berlin K;
; PI WPI; 2001-657177/75.
; PS
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; PT
; XX
; PS Claim 1; SEQ ID 240437; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; XX
; SQ Sequence 13 BP; 7 A; 0 C; 1 G; 5 T; 0 other;
; ABH40460 Length: 13 September 17, 2003 14:26 Type: N Check: 6825 ..
; abh40460
;
; Query Match 52.0%; Score 10.4; DB 1; Length 13;
; Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; Qy 2744 TAAATTCCTTT 2755
; Db 13 TAAATTCCTATT 2
;
; RESULT 311
; abh40461
; TOIG of: abh40461 check: 7052 from: 1 to: 13
;
; ID ABH40461 standard; DNA; 13 BP.
; XX
; AC ABH40461;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 240438 for detecting SNP TSC0005863.
; XX
; SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
```

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; PD 18-OCT-2001.
; XX
; PE 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; PT
; XX
; PS Claim 1; SEQ ID 240438; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; XX
; SQ Sequence 13 BP; 5 A; 1 C; 0 G; 7 T; 0 other;
; ABH40461 Length: 13 September 17, 2003 14:26 Type: N Check: 7052 ..
; abh40461
;
; Query Match 52.0%; Score 10.4; DB 1; Length 13;
; Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; Qy 2744 TAAATTCCTTT 2755
; Db 1 TAAATTCCTATT 12
;
; RESULT 312
; abh45726/c
; TOIG of: abh45726 check: 7044 from: 1 to: 13
;
; ID ABH45726 standard; DNA; 13 BP.
; XX
; AC ABH45726;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 245703 for detecting SNP TSC0060015.
; XX
; SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PE 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIGENOMICS AG.
; XX
```



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; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABI00010-ABI82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 6 A; 0 C; 0 G; 7 T; 0 other;
; ABH46948 Length: 13 September 17, 2003 14:26 Type: N Check: 7169 ..
; abh46948
;
; Query Match
; Best Local Similarity 52.0%; Score 10.4; DB 1; Length 13;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; OY 2742 AATATAATTCCTT 2753
; 12 AATATAATTCCTT 1
;
; RESULT 315
; abh46949
; TOIG of: abh46949 check: 7036 from: 1 to: 13
;
; ID ABH46949 standard; DNA: 13 BP.
; AC ABH46949;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 246926 for detecting SNP TSC0060356.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIG-) EPIGENOMICS AG.
; PI Olek A, Plepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 246926; 29pp + Sequence listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABI00010-ABI82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 7 A; 0 C; 0 G; 6 T; 0 other;

```

```

; ABH46949 Length: 13 September 17, 2003 14:26 Type: N Check: 7036 ..
; abh46949
;
; Query Match
; Best Local Similarity 52.0%; Score 10.4; DB 1; Length 13;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; OY 2742 AATATAATTCCTT 2753
; 2 AATATAATTCCTT 13
;
; RESULT 316
; abh47888/C
; TOIG of: abh47888 check: 6680 from: 1 to: 13
;
; ID ABH47888 standard; DNA: 13 BP.
; AC ABH47888;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 247865 for detecting SNP TSC0060578.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIG-) EPIGENOMICS AG.
; PI Olek A, Plepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 247865; 29pp + Sequence listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABI00010-ABI82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 8 A; 0 C; 1 G; 4 T; 0 other;
; ABH47888 Length: 13 September 17, 2003 14:26 Type: N Check: 6680 ..
; abh47888
;
; Query Match
; Best Local Similarity 52.0%; Score 10.4; DB 1; Length 13;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

QY 2743 ATAAATTCCTT 2754
|||||
DB 12 ATAAATTCCTT 1

RESULT 317

abH47889 check: 7151 from: 1 to: 13

TOIG of: abH47889 check: 7151 from: 1 to: 13

ID ABH47889 standard; DNA; 13 BP.

AC ABH47889;

DE 22-FEB-2002 (first entry)

SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;

peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

central nervous system; gastrointestinal; respiratory; immune; metabolic.

Homo sapiens.

WO200177384-A2.

18-OCT-2001.

06-APR-2001; 2001WO-IB00713.

07-APR-2000; 2000DE-1019173.

(EPIC-) EPIGENOMICS AG.

Olek A, Piepenbrock C, Berlin K;

WPI: 2001-657177/75.

Set of oligonucleotides, useful for diagnosis and cell typing, is

designed to detect single nucleotide polymorphisms and cytosine

methylation status.

Claim 1; SEQ ID 247866; 29pp + Sequence Listing; German.

This invention describes novel oligonucleotide primers or peptide nucleic

acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)

and cytosine methylation status in chemically pretreated genomic DNA. The

oligonucleotides are used for diagnosis and/or prognosis of cancer and a

range of diseases including immune system, gastrointestinal, respiratory,

central nervous system, cardiovascular and metabolic disorders. The

oligonucleotides are also used for detecting cell type differentiation.

CC ABC00010-ABC99989, ABF00010-ABF99989 and

CC AB100010-AB182073 represent the oligomers described in the invention.

NOTE: The sequence data for this patent did not form part of the printed

specification, but was obtained in electronic format from WIPO at

ftp.wipo.int/pub/published_pcr_sequences.

Sequence 13 BP; 4 A; 1 C; 0 G; 8 T; 0 other;

ABH47889 Length: 13 September 17, 2003 14:26 Type: N Check: 7151 ..

abH47889

Query Match 52.0%; Score 10.4; DB 1; Length 13;

Best Local Similarity 91.7%; Pred. No. 1.2e+02;

Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2743 ATAAATTCCTT 2754

|||||

DB 2 ATAAATTCCTT 13

RESULT 318

abH50694/c

TOIG of: abH50694 check: 6653 from: 1 to: 13

ID ABH50694 standard; DNA; 13 BP.

AC ABH50694;

DE 22-FEB-2002 (first entry)

SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;

peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

central nervous system; gastrointestinal; respiratory; immune; metabolic.

Homo sapiens.

WO200177384-A2.

18-OCT-2001.

06-APR-2001; 2001WO-IB00713.

07-APR-2000; 2000DE-1019173.

(EPIC-) EPIGENOMICS AG.

Olek A, Piepenbrock C, Berlin K;

WPI: 2001-657177/75.

Set of oligonucleotides, useful for diagnosis and cell typing, is

designed to detect single nucleotide polymorphisms and cytosine

methylation status.

Claim 1; SEQ ID 250671; 29pp + Sequence Listing; German.

This invention describes novel oligonucleotide primers or peptide nucleic

acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)

and cytosine methylation status in chemically pretreated genomic DNA. The

oligonucleotides are used for diagnosis and/or prognosis of cancer and a

range of diseases including immune system, gastrointestinal, respiratory,

central nervous system, cardiovascular and metabolic disorders. The

oligonucleotides are also used for detecting cell type differentiation.

CC ABC00010-ABC99989, ABF00010-ABF99989 and

CC AB100010-AB182073 represent the oligomers described in the invention.

NOTE: The sequence data for this patent did not form part of the printed

specification, but was obtained in electronic format from WIPO at

ftp.wipo.int/pub/published_pcr_sequences.

Sequence 13 BP; 7 A; 0 C; 2 G; 4 T; 0 other;

ABH50694 Length: 13 September 17, 2003 14:26 Type: N Check: 6653 ..

abH50694

Query Match 52.0%; Score 10.4; DB 1; Length 13;

Best Local Similarity 91.7%; Pred. No. 1.2e+02;

Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2746 AAATCTTCTT 2757

|||||

DB 12 AAATCTTCTT 1

RESULT 319

abH50695

TOIG of: abH50695 check: 6941 from: 1 to: 13

ID ABH50695 standard; DNA; 13 BP.

AC ABH50695;

DE 22-FEB-2002 (first entry)

SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;

peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

central nervous system; gastrointestinal; respiratory; immune; metabolic.

Homo sapiens.

WO200177384-A2.

18-OCT-2001.

06-APR-2001; 2001WO-IB00713.

07-APR-2000; 2000DE-1019173.

(EPIC-) EPIGENOMICS AG.

Olek A, Piepenbrock C, Berlin K;

WPI: 2001-657177/75.

Set of oligonucleotides, useful for diagnosis and cell typing, is

designed to detect single nucleotide polymorphisms and cytosine

methylation status.

Claim 1; SEQ ID 250672 for detecting SNP TSC0061206.

```

; XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; DR WPI; 2001-657177/75.
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; PS Claim 1; SEQ ID 250672; 29pp + Sequence Listing; German.
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; XX
; SQ Sequence 13 BP; 4 A; 2 C; 0 G; 7 T; 0 other;
; ABH50695 Length: 13 September 17, 2003 14:26 Type: N Check: 6941 ..
; abh50695
Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2746 AATTCCTTCT 2757
Db 2 AATTCCTTACT 13
RESULF 320
abh50714/c
; TOIG of: abh50714 check: 6957 from: 1 to: 13
; ID ABH50714 standard; DNA; 13 BP.
; AC ABH50714;
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 250691 for detecting SNP TSC0061212.
; OS SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; PN WO200177384-A2.

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; XX 18-OCT-2001.
; PD 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; DR WPI; 2001-657177/75.
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; PS Claim 1; SEQ ID 250691; 29pp + Sequence Listing; German.
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; XX
; SQ Sequence 13 BP; 5 A; 0 C; 3 G; 5 T; 0 other;
; ABH50714 Length: 13 September 17, 2003 14:26 Type: N Check: 6957 ..
; abh50714
Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2743 AATAATTCCTT 2754
Db 12 ACAAATTCCTT 1
RESULF 321
abh50715
; TOIG of: abh50715 check: 6950 from: 1 to: 13
; ID ABH50715 standard; DNA; 13 BP.
; AC ABH50715;
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 250692 for detecting SNP TSC0061212.
; OS SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIGENOMICS AG.

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; XX Olek A, Piepenbrock C, Berlin K;
; PS
; XX WPI; 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 250692; 29pp + Sequence Listing; German.
; CC
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989 and
; CC AB100010-AB102073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; CC
; XX Sequence 13 BP; 5 A; 3 C; 0 G; 5 T; 0 other;
; SQ
; ABH50715 Length: 13 September 17, 2003 14:26 Type: N Check: 6950 ..
; abh50715
;
; Query Match 52.0%; Score 10.4; DB 1; Length 13;
; Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; QY 2743 ATAAATTCCTT 2754
; | |||||
; Db 2 ACAAATTCCTT 13
;
; RESULT 322
; abh52062
; TOIG of: abh52062 check: 7131 from: 1 to: 13
; ID ABH52062 standard; DNA; 13 BP.
; XX
; AC ABH52062;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 252039 for detecting SNP TSC0061502.
; XX
; SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PE 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPig-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; WPI; 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; CC
```

```

; XX Claim 1; SEQ ID 252039; 29pp + Sequence Listing; German.
; PS
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989 and
; CC AB100010-AB102073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; CC
; XX Sequence 13 BP; 5 A; 0 C; 0 G; 8 T; 0 other;
; SQ
; ABH52062 Length: 13 September 17, 2003 14:26 Type: N Check: 7131 ..
; abh52062
;
; Query Match 52.0%; Score 10.4; DB 1; Length 13;
; Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; QY 2744 TAAATTCCTT 2755
; | |||||
; Db 2 TAAATTCCTT 13
;
; RESULT 323
; abh52063/c
; TOIG of: abh52063 check: 6732 from: 1 to: 13
; ID ABH52063 standard; DNA; 13 BP.
; XX
; AC ABH52063;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 252040 for detecting SNP TSC0061502.
; XX
; SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PE 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPig-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; WPI; 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; CC
; CC Claim 1; SEQ ID 252040; 29pp + Sequence Listing; German.
; PS
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC
```

```
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC AB100010-AB182073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
CC
CC XX Sequence 13 BP; 8 A; 0 C; 0 G; 5 T; 0 other;
SQ
ABH52063 Length: 13 September 17, 2003 14:26 Type: N Check: 6732 ..
abH52063

Query Match
Best Local Similarity 52.0%; Score 10.4; DB 1; Length 13;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2744 TAAATTCCTTT 2755
12 TAAATTCCTTT 1

RESULT 324
abH59146
TOIG of: abH59146 check: 7209 from: 1 to: 13
ID ABH59146 standard; DNA; 13 BP.
XX
XX ABH59146;
AC
XX
XX 22-FEB-2002 (first entry)
DE
XX Oligonucleotide SEQ ID NO 259123 for detecting SNP TSC0062957.
XX
XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPig-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status.
XX
XX Claim 1; SEQ ID 259123; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX AB100010-AB182073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
```

```
SQ Sequence 13 BP; 4 A; 0 C; 1 G; 8 T; 0 other;
ABH59146 Length: 13 September 17, 2003 14:26 Type: N Check: 7209 ..
abH59146

Query Match
Best Local Similarity 52.0%; Score 10.4; DB 1; Length 13;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2744 TAAATTCCTTT 2755
12 TAAATTCCTTT 12

RESULT 325
abH59147/C
TOIG of: abH59147 check: 6715 from: 1 to: 13
ID ABH59147 standard; DNA; 13 BP.
XX
XX ABH59147;
AC
XX
XX 22-FEB-2002 (first entry)
DE
XX Oligonucleotide SEQ ID NO 259124 for detecting SNP TSC0062957.
XX
XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPig-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status.
XX
XX Claim 1; SEQ ID 259124; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX AB100010-AB182073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
XX SQ Sequence 13 BP; 8 A; 1 C; 0 G; 4 T; 0 other;
ABH59147 Length: 13 September 17, 2003 14:26 Type: N Check: 6715 ..
abH59147

Query Match
Best Local Similarity 52.0%; Score 10.4; DB 1; Length 13;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```



```
QY      2744 TAAATTCCTTTT 2755
      ||||| |||
      13 TAAATTTT TTTT 2
Db
RESULT 326
abn62060/c
TOIG of: abn62060 check: 7124 from: 1 to: 13
; ID ABH62060 standard; DNA; 13 BP.
; XX
; AC ABH62060;
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 262037 for detecting SNP TSC0063580.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PE 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 262037; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABI00010-ABI82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SQ Sequence 13 BP; 5 A; 0 C; 2 G; 5 T; 1 other;
; ABH62060 Length: 13 September 17, 2003 14:26 Type: N Check: 7124 ..
abn62060
Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY      2745 AAAATTCCTTTC 2756
      ||||| |||
      12 AAAATTCCTTATC 1
Db
RESULT 327
abn62061
```

```
TOIG of: abn62061 check: 6810 from: 1 to: 13
; ID ABH62061 standard; DNA; 13 BP.
; XX
; AC ABH62061;
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 262038 for detecting SNP TSC0063580.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PE 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 262038; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABI00010-ABI82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SQ Sequence 13 BP; 5 A; 2 C; 0 G; 5 T; 1 other;
; ABH62061 Length: 13 September 17, 2003 14:26 Type: N Check: 6810 ..
abn62061
Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY      2745 AAAATTCCTTTC 2756
      ||||| |||
      2 AAAATTCCTTATC 13
Db
RESULT 328
abn66772/c
TOIG of: abn66772 check: 6969 from: 1 to: 13
; ID ABH66772 standard; DNA; 13 BP.
; XX
; AC ABH66772;
; DT 22-FEB-2002 (first entry)
; XX
```

DE Oligonucleotide SEQ ID NO 266749 for detecting SNP TSC0064639.
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
OS Homo sapiens.
PN WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPIC-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/5.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status.
XX
XX Claim 1; SEQ ID 266749; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX AB100010-AB182073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pcl_sequences.
XX
XX Sequence 13 BP; 5 A; 0 C; 2 G; 6 T; 0 other;
XX
XX ABH66772 Length: 13 September 17, 2003 14:26 Type: N Check: 6969 ..
XX abh66772
XX
XX Query Match 52.0%; Score 10.4; DB 1; Length 13;
XX Best Local Similarity 91.7%; Pred. No. 1.2e+02;
XX Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
XX QY 2743 ATAAATTCCTT 2754
XX
XX DB 13 ATAAATTCCTT 2
XX
XX RESULT 329
XX abh66773
XX
XX TOIG of: abh66773 check: 6747 from: 1 to: 13
XX
XX ID ABH66773 standard; DNA; 13 BP.
XX
XX AC ABH66773;
XX
XX DT 22-FEB-2002 (first entry)
XX
XX DE Oligonucleotide SEQ ID NO 266750 for detecting SNP TSC0064639.
XX
XX OS Homo sapiens.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX

PN WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPIC-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/5.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status.
XX
XX Claim 1; SEQ ID 266750; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX AB100010-AB182073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pcl_sequences.
XX
XX Sequence 13 BP; 6 A; 2 C; 0 G; 5 T; 0 other;
XX
XX ABH66773 Length: 13 September 17, 2003 14:26 Type: N Check: 6747 ..
XX abh66773
XX
XX Query Match 52.0%; Score 10.4; DB 1; Length 13;
XX Best Local Similarity 91.7%; Pred. No. 1.2e+02;
XX Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
XX QY 2743 ATAAATTCCTT 2754
XX
XX DB 1 ATAAATTCCTT 12
XX
XX RESULT 330
XX abh67092/c
XX
XX TOIG of: abh67092 check: 6778 from: 1 to: 13
XX
XX ID ABH67092 standard; DNA; 13 BP.
XX
XX AC ABH67092;
XX
XX DT 22-FEB-2002 (first entry)
XX
XX DE Oligonucleotide SEQ ID NO 267069 for detecting SNP TSC006675.
XX
XX OS Homo sapiens.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX

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PA (EPIC-) EPIDENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI, 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status -
XX
XX Claim 1; SEQ ID 267069; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX ABH00010-ABH99989 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 13 BP; 4 A; 0 C; 3 G; 6 T; 0 other;
XX
XX ABH67092 Length: 13 September 17, 2003 14:26 Type: N Check: 6778 ...
XX abh67092
XX
XX Query Match 52.0%; Score 10.4; DB 1; Length 13;
XX Best Local Similarity 91.7%; Pred. No. 1.2e+02;
XX Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
XX 2739 CTCATATAATT 2750
XX 12 CCCATATAATT 1
XX
XX RESULT 331
XX abh67093
XX TOIG of: abh67093 check: 6560 from: 1 to: 13
XX
XX ID ABH67093 standard; DNA; 13 BP.
XX
XX AC ABH67093;
XX
XX DE 22-FEB-2002 (first entry)
XX
XX DE Oligonucleotide SEQ ID NO 267070 for detecting SNP TSC0006675.
XX
XX SNF; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPIC-) EPIDENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI, 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
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PT methylation status -
XX
XX Claim 1; SEQ ID 267070; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX ABH00010-ABH99989 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 13 BP; 6 A; 3 C; 0 G; 4 T; 0 other;
XX
XX ABH67093 Length: 13 September 17, 2003 14:26 Type: N Check: 6560 ...
XX abh67093
XX
XX Query Match 52.0%; Score 10.4; DB 1; Length 13;
XX Best Local Similarity 91.7%; Pred. No. 1.2e+02;
XX Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
XX 2739 CTCATATAATT 2750
XX 2 CCCATATAATT 13
XX
XX RESULT 332
XX aaf35421
XX TOIG of: aaf35421 check: 4311 from: 1 to: 10
XX
XX ID AAF35421 standard; DNA; 10 BP.
XX
XX AC AAF35421;
XX
XX DE 23-MAR-2001 (first entry)
XX
XX DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO: 2160.
XX
XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
XX nor previously assigned open reading frame; nonannotated ORF; SAGE;
XX serial analysis of gene expression; antifungal; tag; identification;
XX linker; PCR primer; ds.
XX
XX OS Saccharomyces cerevisiae.
XX
XX WO200077214-A2.
XX
XX 21-DEC-2000.
XX
XX 14-JUN-2000; 2000WO-US16223.
XX
XX 16-JUN-1999; 99US-0335033.
XX
XX (UYJO ) UNIT JOHNS HOPKINS
XX
XX Velulescu V, Vogelstein B, Kinzler K;
XX
XX WPI, 2001-061874/07.
XX
XX Yeast gene coding sequences comprising NORF genes with serial analysis
XX of gene expression (SAGE) tags, useful for studying, monitoring and
XX affecting phases of the cell cycle -
XX
XX Example; Page 77; 419pp; English.
XX
XX The present invention describes an isolated DNA molecule comprising a
XX coding sequence of a yeast gene selected from a group of 745 NORF (not
XX previously assigned open reading frame; or nonannotated ORF) genes
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; CC comprising a SAGE (serial analysis of gene expression) tag. Also
; CC described are: (1) a method (M1) of using NORF genes to affect the cell
; CC cycle comprising administering a NORF gene whose expression varies by at
; CC least 10% between any two phases of the cell cycle selected from 10g
; CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
; CC antifungal drugs comprising: (a) contacting a test substance with a
; CC yeast cell; and (b) monitoring expression of a NORF gene whose
; CC expression varies as in M1, where a test substance which modifies the
; CC expression of the yeast gene is a candidate antifungal drug; (3) a method
; CC (M3) for identifying human genes which are involved in cell cycle
; CC progression comprising contacting human DNA with a probe which comprises
; CC at least 10 contiguous nucleotides of a NORF gene whose expression varies
; CC as in M1; and (4) a method (M4) for identifying a candidate drug as a
; CC member of a class of drugs having a characteristic effect on gene
; CC expression in a yeast cell comprising contacting a yeast cell with a
; CC candidate drug and monitoring expression in the yeast cell of at least 1
; CC NORF gene whose expression is affected by the class of drugs. The NORF
; CC genes may be used to study, monitor and affect phases of the cell cycle,
; CC the differentially expressed genes may be used as markers of phases of
; CC the cell cycle. The methods may be used to identify candidate drugs which
; CC affect the cell cycle and for identification of antifungal drugs.
; CC AAF33268 to AAF44064 represent SAGE tags used in the exemplification of
; CC the present invention. AAF33262 to AAF33267 represent linkers and PCR
; CC primers used in the SAGE method, in the exemplification of the present
; CC invention.
; XX
; SQ Sequence 10 BP; 4 A; 1 C; 0 G; 5 T; 0 other;
; AAF35421 Length: 10 September 17, 2003 14:26 Type: N Check: 4311 ..
; aaf35421
;
; Query Match 50.0%; Score 10; DB 1; Length 10;
; Best Local Similarity 100.0%; Pred. No. 1.2e+02;
; Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
;
; QY 2745 AAAATTCCTT 2754
; |||||
; Db 1 AAAATTCCTT 10
;
; RESULT 333
; aaf35733/c
; TOIG of: aaf35733 check: 4245 from: 1 to: 10
;
; ID AAF35733 standard; DNA: 10 BP.
; XX
; AC AAF35733:
; XX
; DT 23-MAR-2001 (first entry)
; XX
; DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:2472.
; XX
; KW Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
; KM nor previously assigned open reading frame; nonannotated ORF; SAGE;
; KW serial analysis of gene expression; antifungal; tag; identification;
; KM linker; PCR primer; ds.
; XX
; OS Saccharomyces cerevisiae.
; XX
; PN WO200077214-A2.
; XX
; PD 21-DEC-2000.
; XX
; PF 14-JUN-2000; 2000WO-US16223.
; XX
; PR 16-JUN-1999; 99US-0335032.
; XX
; PA (UYJO ) UNTV JOHNS HOPKINS.
; XX
; PI Velculescu V, Vogelstein B, Kinzler K;
; XX
; DR WPI; 2001-061874/07.
; XX

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; PF Yeast gene coding sequences comprising NORF genes with serial analysis
; of gene expression (SAGE) tags, useful for studying, monitoring and
; affecting phases of the cell cycle -
; PS
; XX Example; Page 88; 419pp; English.
; CC The present invention describes an isolated DNA molecule comprising a
; CC coding sequence of a yeast gene selected from a group of 745 NORF (not
; CC previously assigned open reading frame; or nonannotated ORF) genes
; CC comprising a SAGE (serial analysis of gene expression) tag. Also
; CC described are: (1) a method (M1) of using NORF genes to affect the cell
; CC cycle comprising administering a NORF gene whose expression varies by at
; CC least 10% between any two phases of the cell cycle selected from 10g
; CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
; CC antifungal drugs comprising: (a) contacting a test substance with a
; CC yeast cell; and (b) monitoring expression of a NORF gene whose
; CC expression varies as in M1, where a test substance which modifies the
; CC expression of the yeast gene is a candidate antifungal drug; (3) a method
; CC (M3) for identifying human genes which are involved in cell cycle
; CC progression comprising contacting human DNA with a probe which comprises
; CC at least 10 contiguous nucleotides of a NORF gene whose expression varies
; CC as in M1; and (4) a method (M4) for identifying a candidate drug as a
; CC member of a class of drugs having a characteristic effect on gene
; CC expression in a yeast cell comprising contacting a yeast cell with a
; CC candidate drug and monitoring expression in the yeast cell of at least 1
; CC NORF gene whose expression is affected by the class of drugs. The NORF
; CC genes may be used to study, monitor and affect phases of the cell cycle,
; CC the differentially expressed genes may be used as markers of phases of
; CC the cell cycle. The methods may be used to identify candidate drugs which
; CC affect the cell cycle and for identification of antifungal drugs.
; CC AAF33268 to AAF44064 represent SAGE tags used in the exemplification of
; CC the present invention. AAF33262 to AAF33267 represent linkers and PCR
; CC primers used in the SAGE method, in the exemplification of the present
; CC invention.
; XX
; SQ Sequence 10 BP; 5 A; 0 C; 1 G; 4 T; 0 other;
; AAF35733 Length: 10 September 17, 2003 14:26 Type: N Check: 4245 ..
; aaf35733
;
; Query Match 50.0%; Score 10; DB 1; Length 10;
; Best Local Similarity 100.0%; Pred. No. 1.2e+02;
; Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
;
; QY 2745 AAAATTCCTT 2754
; |||||
; Db 10 AAAATTCCTT 1
;
; RESULT 334
; aaf36888/c
; TOIG of: aaf36888 check: 4118 from: 1 to: 10
;
; ID AAF36888 standard; DNA: 10 BP.
; XX
; AC AAF36888:
; XX
; DT 23-MAR-2001 (first entry)
; XX
; DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:3627.
; XX
; KW Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
; KM nor previously assigned open reading frame; nonannotated ORF; SAGE;
; KW serial analysis of gene expression; antifungal; tag; identification;
; KM linker; PCR primer; ds.
; XX
; OS Saccharomyces cerevisiae.
; XX
; PN WO200077214-A2.
; XX
; PD 21-DEC-2000.
; XX
; PF 14-JUN-2000; 2000WO-US16223.
; XX

```

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; XX 16-JUN-1999; 99US-0335032.
; PR
; XX (UYJO ) UNIV JOHNS HOPKINS.
; PA
; XX Velculescu V, Vogelstein B, Kinzler K;
; PI WPI; 2001-061874/07.
; DR
; XX
; PR Yeast gene coding sequences comprising NORF genes with serial analysis
; PT of gene expression (SAGE) tags, useful for studying, monitoring and
; PT affecting phases of the cell cycle -
; XX
; PS Example; Page 129; 419pp; English.
; XX
; CC The present invention describes an isolated DNA molecule comprising a
; CC coding sequence of a yeast gene selected from a group of 745 NORF (not
; CC previously assigned open reading frame; or nonannotated ORF) genes
; CC comprising a SAGE (serial analysis of gene expression) tag. Also
; CC described are: (1) a method (M1) of using NORF genes to affect the cell
; CC cycle comprising administering a NORF gene whose expression varies by at
; CC least 10% between any two phases of the cell cycle selected from log
; CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
; CC antifungal drugs comprising: (a) contacting a test substance with a
; CC yeast cell; and (b) monitoring expression of a NORF gene whose
; CC expression varies as in M1, where a test substance which modifies the
; CC expression of the yeast gene is a candidate antifungal drug; (3) a method
; CC (M3) for identifying human genes which are involved in cell cycle
; CC progression comprising contacting human DNA with a probe which comprises
; CC at least 10 contiguous nucleotides of a NORF gene whose expression varies
; CC as in M1; and (4) a method (M4) for identifying a candidate drug as a
; CC member of a class of drugs having a characteristic effect on gene
; CC expression in a yeast cell comprising contacting a yeast cell with a
; CC candidate drug and monitoring expression in the yeast cell of at least 1
; CC NORF gene whose expression is affected by the class of drugs. The NORF
; CC genes may be used to study, monitor and affect phases of the cell cycle,
; CC the differentially expressed genes may be used as markers of phases of
; CC the cell cycle. The methods may be used to identify candidate drugs which
; CC affect the cell cycle and for identification of antifungal drugs.
; CC AAF33268 to AAF44064 represent SAGE tags used in the exemplification of
; CC the present invention. AAF33262 to AAF33267 represent linkers and PCR
; CC primers used in the SAGE method, in the exemplification of the present
; CC invention.
; CC
; XX
; SQ Sequence 10 BP; 6 A; 0 C; 1 G; 3 T; 0 other;
;
; AAF36888 Length: 10 September 17, 2003 14:26 Type: N Check: 4118 ..
; aaf36888
;
; Query Match 50.0%; Score 10; DB 1; Length 10;
; Best Local Similarity 100.0%; Pred. No. 1.2e+02;
; Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
;
; QY 2746 AATTCCTTT 2755
; DB 10 AATTCCTTT 1
;
; RESULT 335
; aaf40514
; TOIG of: aaf40514 check: 4014 from: 1 to: 10
;
; ID AAF40514 standard; DNA: 10 BP.
; AC
; XX AAF40514;
; XX
; DT 23-MAR-2001 (first entry)
; XX
; XX Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO: 7253.
; DE
; XX Yeast: Saccharomyces cerevisiae; characterisation: cell cycle; NORF;
; KW nor previously assigned open reading frame; nonannotated ORF; SAGE;
; serial analysis of gene expression; antifungal; tag; identification;
; KW

```

```

; KW linker; PCR primer; ds.
; XX
; XX Saccharomyces cerevisiae.
; OS
; XX WO200077214-A2.
; PN
; XX
; PD 21-DEC-2000.
; PF
; XX 14-JUN-2000; 2000WO-US16223.
; PR
; XX 16-JUN-1999; 99US-0335032.
; XX
; PA (UYJO ) UNIV JOHNS HOPKINS.
; PI
; XX Velculescu V, Vogelstein B, Kinzler K;
; DR WPI; 2001-061874/07.
; XX
; PR Yeast gene coding sequences comprising NORF genes with serial analysis
; PT of gene expression (SAGE) tags, useful for studying, monitoring and
; PT affecting phases of the cell cycle -
; XX
; PS Example; Page 259; 419pp; English.
; XX
; CC The present invention describes an isolated DNA molecule comprising a
; CC coding sequence of a yeast gene selected from a group of 745 NORF (not
; CC previously assigned open reading frame; or nonannotated ORF) genes
; CC comprising a SAGE (serial analysis of gene expression) tag. Also
; CC described are: (1) a method (M1) of using NORF genes to affect the cell
; CC cycle comprising administering a NORF gene whose expression varies by at
; CC least 10% between any two phases of the cell cycle selected from log
; CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
; CC antifungal drugs comprising: (a) contacting a test substance with a
; CC yeast cell; and (b) monitoring expression of a NORF gene whose
; CC expression varies as in M1, where a test substance which modifies the
; CC expression of the yeast gene is a candidate antifungal drug; (3) a method
; CC (M3) for identifying human genes which are involved in cell cycle
; CC progression comprising contacting human DNA with a probe which comprises
; CC at least 10 contiguous nucleotides of a NORF gene whose expression varies
; CC as in M1; and (4) a method (M4) for identifying a candidate drug as a
; CC member of a class of drugs having a characteristic effect on gene
; CC expression in a yeast cell comprising contacting a yeast cell with a
; CC candidate drug and monitoring expression in the yeast cell of at least 1
; CC NORF gene whose expression is affected by the class of drugs. The NORF
; CC genes may be used to study, monitor and affect phases of the cell cycle,
; CC the differentially expressed genes may be used as markers of phases of
; CC the cell cycle. The methods may be used to identify candidate drugs which
; CC affect the cell cycle and for identification of antifungal drugs.
; CC AAF33268 to AAF44064 represent SAGE tags used in the exemplification of
; CC the present invention. AAF33262 to AAF33267 represent linkers and PCR
; CC primers used in the SAGE method, in the exemplification of the present
; CC invention.
; CC
; XX
; SQ Sequence 10 BP; 6 A; 1 C; 0 G; 3 T; 0 other;
;
; AAF40514 Length: 10 September 17, 2003 14:26 Type: N Check: 4014 ..
; aaf40514
;
; Query Match 50.0%; Score 10; DB 1; Length 10;
; Best Local Similarity 100.0%; Pred. No. 1.2e+02;
; Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
;
; QY 2741 CAATTAATTT 2750
; DB 1 CAATTAATTT 10
;
; RESULT 336
; aaz07935
; TOIG of: aaz07935 check: 4014 from: 1 to: 10
;
; ID AAZ07935 standard; DNA: 10 BP.
; XX

```

```
; AC AA207935;
; XX
; DT 20-DEC-1999 (first entry)
; XX
; DE EST 3 specific SAGE tag sequence.
; XX
; KW Neoplasia; lung cell; proto-oncogene; b-myb; p67; PGP9.5; 8-oxo-dGTPase;
; KM diagnosis; lung cancer; SAGE; Serial Analysis of Gene Expression;
; NSCLC; ss.
; OS
; XX Synthetic.
; PN WO949774-A2.
; PD 07-OCT-1999.
; XX
; PF 30-MAR-1999; 99MO-US06947.
; XX
; PR 31-MAR-1998; 98US-0080044.
; PA (GENZ ) GENZYME CORP.
; PA (UJJO ) UNIT JOHNS HOPKINS.
; XX
; PI Jen J, Beaudry GA, Madden SL, Bertelsen AH;
; XX
; DR WPI; 1999-580562/49.
; XX
; PT Diagnosing lung cancer by detecting over-expression of specific
; PT proto-oncogenes, and screening for therapeutic agents that inhibit
; PT over-expression -
; XX
; PS Examples: Page 34; 51pp; English.
; XX
; CC The invention relates to the diagnosis of neoplasia of lung cells that
; CC comprises detecting over-expression of one of the proto-oncogenes b-myb,
; CC p67, PGP9.5 and 8-oxo-dGTPase. The method is used for diagnosis, and
; CC monitoring, of lung cancer, or predisposition to this disease.
; CC particularly non-small cell lung cancer (NSCLC). Therapeutic agents that
; CC inhibit over-expression of the oncogenes are used to treat lung cancer,
; CC also to prevent progression of pre-neoplastic or non-malignant states.
; CC The specified proto-oncogenes have been found to be expressed in many
; CC primary lung cancers. The method is useful for the early diagnosis and
; CC monitoring of lung cancer. Sequences AA207926-938 represents SAGE tag
; CC sequences used in SAGE (Serial Analysis of Gene Expression) analysis of
; CC genes overexpressed NSCLC.
; XX
; SQ Sequence 10 BP; 6 A; 1 C; 0 G; 3 T; 0 other;
; AA207935 Length: 10 September 17, 2003 14:26 Type: N Check: 4014 ..
; aa207935
Query Match 50.0%; Score 10; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 1.2e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2741 CAATTAATTT 2750
DB 1 CAATTAATTT 10
RESULT 337
aa28345
; TOIG of: aa28345 check: 4014 from: 1 to: 10
; ID AA28345 standard; cDNA; 10 BP.
; AC
; AC AA28345;
; XX
; DT 20-DEC-1999 (first entry)
; XX
; DE Lung cancer indicator polynucleotide #25.
; XX
; KW Lung cancer; tumour; primary squamous cell; gene expression pattern; ss;
```

```
; KM antibody; detect; diagnosis; transgenic animal; expressed sequence tag.
; XX
; OS Homo sapiens.
; PN WO950278-A1.
; XX
; PD 07-OCT-1999.
; XX
; PF 30-MAR-1999; 99MO-US06938.
; XX
; PR 31-MAR-1998; 98US-0080037.
; PA (GENZ ) GENZYME CORP.
; PA Beaudry GA, Madden SL, Bertelsen AH;
; XX
; PI WPI; 1999-591271/50.
; XX
; DR Polynucleotides which are differentially expressed in lung cancer, used
; PT for diagnosis and screening for therapeutic agents -
; PT Claim 1; Page 51; 69pp; English.
; XX
; CC Sequences AA28321-228360 are polynucleotides isolated from primary
; CC squamous cell lung cancers of two patients. These sequences represent a
; CC profile of gene expression patterns in lung cancer. Sequences
; CC AA28321-228360 do not correspond to previously characterised genes. Sequences
; CC AA28341-228360 do not correspond to known genes, although some do
; CC correspond to reported expressed sequence tags (ESTs). This sequence
; CC does not correspond to a known EST. The presence of these polynucleotide
; CC sequences in lung cells is indicative of lung cancer. The sequences can
; CC be used to generate antibodies for the detection of tumour cells.
; CC Detection of the overexpression of the polynucleotides and their gene
; CC products can be used in the diagnosis of lung cancer or the
; CC susceptibility to the disease. The sequences can also be used to screen
; CC for agents potentially useful for treating lung cancer and to generate
; CC transgenic animals (for studying gene function and for drug screening).
; XX
; SQ Sequence 10 BP; 6 A; 1 C; 0 G; 3 T; 0 other;
; AA28345 Length: 10 September 17, 2003 14:26 Type: N Check: 4014 ..
; aa28345
Query Match 50.0%; Score 10; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 1.2e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2741 CAATTAATTT 2750
DB 1 CAATTAATTT 10
RESULT 338
abv62284
; TOIG of: abv62284 check: 4938 from: 1 to: 11
; ID ABV62284 standard; cDNA; 11 BP.
; AC
; AC ABV62284;
; XX
; DT 21-OCT-2002 (first entry)
; XX
; DE Human skin EST 70.
; XX
; KW Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;
; KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
; KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
; XX
; OS Homo sapiens.
; XX
; PN WO200253774-A2.
; XX
; PD 11-JUL-2002.
```

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; XX 20-DEC-2001; 2001WO-EP15179.
; PF
; XX 03-JAN-2001; 2001DE-1000127.
; PR
; XX (HENK ) HENKEL KGAA.
; PA
; XX Petersohn D, Conradt M, Hofmann K;
; PI
; XX WPI; 2002-590638/63.
; DR
; XX
; PT In vitro identification of skin-expressed genes, useful for determining
; PT homeostasis and identifying cosmetic or pharmaceutical agents against
; PT e.g. skin cancer
; PS
; XX Disclosure; Page 28; 1345pp; German.
; PS
; CC The invention relates to in vitro identification (M1) of genes expressed
; CC in the skin of humans or animals by subjecting a mixture of genetically
; CC encoded factors from skin, to serial analysis of gene expression (SAGE)
; CC so as to identify skin-expressed genes and quantify their expression.
; CC (M1) is useful for identifying genes involved in skin homeostasis; to
; CC determine skin homeostasis and to test agent (A) that maintains or
; CC promotes skin homeostasis or that can be used for treating skin
; CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
; CC Ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
; CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
; CC skin. The present sequence is that of a human expressed sequence tag
; CC (EST) of the invention.
; CC
; XX
; SQ Sequence 11 BP; 6 A; 1 C; 0 G; 4 T; 0 other;
;
; ABV62284 Length: 11 September 17, 2003 14:26 Type: N Check: 4938 ..
; abv62284

Query Match 50.0%; Score 10; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2741 CAATAAAATT 2750
Db 1 CAATAAAATT 10

RESULT 339
abv69705
; TOIG of: abv69705 check: 4938 from: 1 to: 11
;
; ID ABV69705 standard; CDNA; 11 BP.
; AC
; XX ABV69705;
; AC
; XX 21-OCT-2002 (first entry)
; DT
; XX Human skin EST 7491.
; DE
; XX Human skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;
; KW immunosuppressive; antinflammatory; cytostatic; SAGE; neurodermatitis;
; KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
; OS
; XX Homo sapiens.
; OS
; XX WO200253774-A2.
; PN
; XX 11-JUL-2002.
; PD
; XX 20-DEC-2001; 2001WO-EP15179.
; PF
; XX 03-JAN-2001; 2001DE-1000127.
; PR
; XX (HENK ) HENKEL KGAA.
; PA
; XX Petersohn D, Conradt M, Hofmann K;
; PI
```

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; XX WPI; 2002-590638/63.
; DR
; XX
; PT In vitro identification of skin-expressed genes, useful for determining
; PT homeostasis and identifying cosmetic or pharmaceutical agents against
; PT e.g. skin cancer
; PS
; XX Claim 24; Page 236; 1345pp; German.
; PS
; CC The invention relates to in vitro identification (M1) of genes expressed
; CC in the skin of humans or animals by subjecting a mixture of genetically
; CC encoded factors from skin, to serial analysis of gene expression (SAGE)
; CC so as to identify skin-expressed genes and quantify their expression.
; CC (M1) is useful for identifying genes involved in skin homeostasis; to
; CC determine skin homeostasis and to test agent (A) that maintains or
; CC promotes skin homeostasis or that can be used for treating skin
; CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
; CC Ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
; CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
; CC skin. The present sequence is that of a human expressed sequence tag
; CC (EST) of the invention.
; CC
; XX
; SQ Sequence 11 BP; 6 A; 1 C; 0 G; 4 T; 0 other;
;
; ABV69705 Length: 11 September 17, 2003 14:26 Type: N Check: 4938 ..
; abv69705

Query Match 50.0%; Score 10; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2741 CAATAAAATT 2750
Db 1 CAATAAAATT 10

RESULT 340
abh68437/c
; TOIG of: abh68437 check: 6021 from: 1 to: 12
;
; ID ABH68437 standard; DNA; 12 BP.
; AC
; XX ABH68437;
; AC
; XX 22-FEB-2002 (first entry)
; DT
; XX Oligonucleotide primer SEQ ID NO 268414 for detecting SNP TSC0001123.
; DE
; XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS
; XX Homo sapiens.
; OS
; XX WO200177384-A2.
; PN
; XX 18-OCT-2001.
; PD
; XX 06-APR-2001; 2001WO-IB00713.
; PF
; XX 07-APR-2000; 2000DE-1019173.
; PR
; XX (EPIC-) EPIGENOMICS AG.
; PA
; XX Olek A, Piepenbrock C, Berlin K;
; PI
; XX WPI; 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; PS
; XX Claim 1; SEQ ID 268414; 29pp + Sequence Listing; German.
```

```

; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABF99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 5 A; 0 C; 2 G; 5 T; 0 other;
; ABH68437 Length: 12 September 17, 2003 14:26 Type: N Check: 6021 ..
; abh68437
Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2745 AAAATTCCTT 2754
Db 10 AAAATTCCTT 1
RESULT 341
abh68832
; TOIG of: abh68832 check: 6034 from: 1 to: 12
; ID ABH68832 standard; DNA: 12 BP.
; XX
; AC ABH68832;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 268809 for detecting SNP TSC0001420.
; XX
; SNR; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR MPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 268809; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.

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; CC ABC00010-ABF99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 5 A; 1 C; 0 G; 6 T; 0 other;
; ABH68832 Length: 12 September 17, 2003 14:26 Type: N Check: 6034 ..
; abh68832
Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2745 AAAATTCCTT 2754
Db 1 AAAATTCCTT 10
RESULT 342
abh69536
; TOIG of: abh69536 check: 5314 from: 1 to: 12
; ID ABH69536 standard; DNA: 12 BP.
; XX
; AC ABH69536;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 269513 for detecting SNP TSC0001787.
; XX
; SNR; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR MPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 269513; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABF99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 8 A; 2 C; 0 G; 2 T; 0 other;

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; ABH69536 Length: 12 September 17, 2003 14:26 Type: N Check: 5314 ..
 abh69536

Query Match 50.0%; Score 10; DB 1; Length 12;
 Best Local Similarity 100.0%; Pred. No. 1.4e+02;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2739 CTCATATATAA 2748
 |||||
 Db 3 CTCATATATAA 12

RESULT 343
 abh70144/c
 ; TOIG of: abh70144 check: 6054 from: 1 to: 12

; ID ABH70144 standard; DNA; 12 BP.

; AC ABH70144;

; XX 22-FEB-2002 (first entry)

; DE Oligonucleotide primer SEQ ID NO 270121 for detecting SNP TSC0002007.

; KW SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 central nervous system; gastrointestinal; respiratory; immune; metabolic.

; OS Homo sapiens.

; PN WO200177384-A2.

; PD 18-OCT-2001.

; PE 06-APR-2001; 2001WO-IB00713.

; PR 07-APR-2000; 2000DE-1019173.

; PA (EPIC-) EPIGENOMICS AG.

; PI Olek A, Piepenbrock C, Berlin K;

; DR WPI; 2001-657177/75.

; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 designed to detect single nucleotide polymorphisms and cytosine
 methylation status -

; PT Claim 1; SEQ ID 270121; 29pp + Sequence Listing; German.

; CC This invention describes novel oligonucleotide primers or peptide nucleic
 acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 and cytosine methylation status in chemically pretreated genomic DNA. The
 oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 range of diseases including immune system, gastrointestinal, respiratory,
 central nervous system, cardiovascular and metabolic disorders. The
 oligomers are also used for detecting cell type differentiation.

; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 ABH00010-ABH82073 represent the oligomers described in the invention.
 NOTE: The sequence data for this patent did not form part of the printed
 specification, but was obtained in electronic format from WIPO at
 ftp.wipo.int/pub/published_pct_sequences.

; CC Sequence 12 BP; 4 A; 0 C; 1 G; 7 T; 0 other;

; ABH70144 Length: 12 September 17, 2003 14:26 Type: N Check: 6054 ..
 abh70144

Query Match 50.0%; Score 10; DB 1; Length 12;
 Best Local Similarity 100.0%; Pred. No. 1.4e+02;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2741 CAATATAAT 2750

Db 12 CAATATAAT 3
 |||||

RESULT 344
 abh70864
 ; TOIG of: abh70864 check: 5796 from: 1 to: 12

; ID ABH70864 standard; DNA; 12 BP.

; AC ABH70864;

; XX 22-FEB-2002 (first entry)

; DE Oligonucleotide primer SEQ ID NO 270841 for detecting SNP TSC0002296.

; KW SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 central nervous system; gastrointestinal; respiratory; immune; metabolic.

; OS Homo sapiens.

; PN WO200177384-A2.

; PD 18-OCT-2001.

; PE 06-APR-2001; 2001WO-IB00713.

; PR 07-APR-2000; 2000DE-1019173.

; PA (EPIC-) EPIGENOMICS AG.

; PI Olek A, Piepenbrock C, Berlin K;

; DR WPI; 2001-657177/75.

; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 designed to detect single nucleotide polymorphisms and cytosine
 methylation status -

; PT Claim 1; SEQ ID 270841; 29pp + Sequence Listing; German.

; CC This invention describes novel oligonucleotide primers or peptide nucleic
 acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 and cytosine methylation status in chemically pretreated genomic DNA. The
 oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 range of diseases including immune system, gastrointestinal, respiratory,
 central nervous system, cardiovascular and metabolic disorders. The
 oligomers are also used for detecting cell type differentiation.

; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 ABH00010-ABH82073 represent the oligomers described in the invention.
 NOTE: The sequence data for this patent did not form part of the printed
 specification, but was obtained in electronic format from WIPO at
 ftp.wipo.int/pub/published_pct_sequences.

; CC Sequence 12 BP; 7 A; 1 C; 0 G; 4 T; 0 other;

; ABH70864 Length: 12 September 17, 2003 14:26 Type: N Check: 5796 ..
 abh70864

Query Match 50.0%; Score 10; DB 1; Length 12;
 Best Local Similarity 100.0%; Pred. No. 1.4e+02;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2741 CAATATAAT 2750
 |||||
 Db 2 CAATATAAT 11

RESULT 345
 abh72223
 ; TOIG of: abh72223 check: 5628 from: 1 to: 12

```

; ID ABH72223 standard; DNA; 12 BP.
; XX
; AC ABH72223;
; XX
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 272202 for detecting SNP TSC0002737.
; XX
; KW SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIG-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PT WPI; 2001-657177/75.
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 272202; 29pp + Sequence listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABR00010-ABR99989, ABH00010-ABH99989 and
; CC ABI00010-ABI82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; CC
; SQ Sequence 12 BP; 6 A; 2 C; 0 G; 4 T; 0 other;
; ABH72223 Length: 12 September 17, 2003 14:26 Type: N Check: 5628 ..
; abh72223
Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 2742 AATAAATTC 2751
Db 3 AATAAATTC 12
RESULT 346
abh74541/c
; TOIG Of: abh74541 check: 5972 from: 1 to: 12
; ID ABH74541 standard; DNA; 12 BP.
; XX
; AC ABH74541;
; KW 22-FEB-2002 (first entry)
; DT
; XX Oligonucleotide primer SEQ ID NO 274526 for detecting SNP TSC0003582.
; XX

```

```

; KW SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIG-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PT WPI; 2001-657177/75.
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 274526; 29pp + Sequence listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABR00010-ABR99989, ABH00010-ABH99989 and
; CC ABI00010-ABI82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; CC
; SQ Sequence 12 BP; 3 A; 0 C; 1 G; 8 T; 0 other;
; ABH74541 Length: 12 September 17, 2003 14:26 Type: N Check: 5972 ..
; abh74541
Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 2740 TCAATTAAT 2749
Db 12 TCAATTAAT 3
RESULT 347
abh75754/c
; TOIG Of: abh75754 check: 5853 from: 1 to: 12
; ID ABH75754 standard; DNA; 12 BP.
; XX
; AC ABH75754;
; KW 22-FEB-2002 (first entry)
; DT
; XX Oligonucleotide primer SEQ ID NO 275747 for detecting SNP TSC0003985.
; KW SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; PN WO200177384-A2.
; XX

```

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; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPiG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; PS
; PS Claim 1; SEQ ID 275747; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; XX
; SQ Sequence 12 BP; 5 A; 0 C; 2 G; 5 T; 0 other;
;
; ABH75754 Length: 12 September 17, 2003 14:26 Type: N Check: 5853 ..
abh75754
Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2744 TAAATTCCTT 2753
| | | | |
Db 12 TAAATTCCTT 3

RESULT 348
abh79804 check: 5378 from: 1 to: 12
; TOIG of: abh79804 standard; DNA; 12 BP.
; ID ABH79804 standard; DNA; 12 BP.
; XX
; AC ABH79804;
; XX
; DT 22-FEB-2002 (first entry)
; DE
; DE Oligonucleotide primer SEQ ID NO 279797 for detecting SNP TSC0007838.
; XX
; SNF: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPiG-) EPIGENOMICS AG.
; XX

```

```

; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; PS
; PS Claim 1; SEQ ID 279797; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; XX
; SQ Sequence 12 BP; 8 A; 1 C; 0 G; 3 T; 0 other;
;
; ABH79804 Length: 12 September 17, 2003 14:26 Type: N Check: 5378 ..
abh79804
Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2740 TCAATAAAAT 2749
| | | | |
Db 1 TCAATAAAAT 10

RESULT 349
abh81738/c
; TOIG of: abh81738 check: 5824 from: 1 to: 12
; ID ABH81738 standard; DNA; 12 BP.
; XX
; AC ABH81738;
; XX
; DT 22-FEB-2002 (first entry)
; DE
; DE Oligonucleotide primer SEQ ID NO 281731 for detecting SNP TSC0010022.
; XX
; SNF: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPiG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; PS

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```

; PS Claim 1; SEQ ID 281731; 29pp + Sequence Listing; German.
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABP00010-ABP99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 3 A; 0 C; 2 G; 7 T; 0 other;
; ABH81738 Length: 12 September 17, 2003 14:26 Type: N Check: 5824 ..
; abh81738

Query Match      50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2739 CTCATATAAA 2748
DB 10 CTCATATAAA 1

RESULT 350
abh82009
; TOIG of: abh82009 check: 5494 from: 1 to: 12
; ID ABH82009 standard; DNA; 12 BP.
; XX
; AC ABH82009;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE oligonucleotide primer SEQ ID NO 282002 for detecting SNP TSC0010245.
; XX
; SN SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Plepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; Claim 1; SEQ ID 282002; 29pp + Sequence Listing; German.
; PS This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The

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; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABP00010-ABP99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 7 A; 2 C; 0 G; 3 T; 0 other;
; ABH82009 Length: 12 September 17, 2003 14:26 Type: N Check: 5494 ..
; abh82009

Query Match      50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2742 AATAAATTC 2751
DB 1 AATAAATTC 10

RESULT 351
abh82564/C
; TOIG of: abh82564 check: 5911 from: 1 to: 12
; ID ABH82564 standard; DNA; 12 BP.
; XX
; AC ABH82564;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE oligonucleotide primer SEQ ID NO 282557 for detecting SNP TSC0010865.
; XX
; SN SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Plepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; Claim 1; SEQ ID 282557; 29pp + Sequence Listing; German.
; PS This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABP00010-ABP99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 2 A; 0 C; 3 G; 7 T; 0 other;

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; ABH82564 Length: 12 September 17, 2003 14:26 Type: N Check: 5911 ..
abH82564
Query Match          50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2739 CTCACATATAA 2748
      |||||
Db      12 CTCACATATAA 3

RESULT 352
abH83730
; TOIG of: abH83730 check: 5903 from: 1 to: 12
; ID ABH83730 standard; DNA; 12 BP.
; AC ABH83730;
; XX 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 283723 for detecting SNP TSC0011474.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; PE 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; DR WPI: 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 283723; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABT00010-ABT82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; XX
; SO Sequence 12 BP; 6 A; 1 C; 0 G; 5 T; 0 other;
; ABH83730 Length: 12 September 17, 2003 14:26 Type: N Check: 5903 ..
abH83730
Query Match          50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY      2745 AAAATCTTT 2754
      |||||
Db      2 AAAATCTTT 11

RESULT 353
abH84268/c
; TOIG of: abH84268 check: 5956 from: 1 to: 12
; ID ABH84268 standard; DNA; 12 BP.
; AC ABH84268;
; XX 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 284261 for detecting SNP TSC0011745.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; PE 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; DR WPI: 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 284261; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABT00010-ABT82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; XX
; SO Sequence 12 BP; 3 A; 0 C; 2 G; 7 T; 0 other;
; ABH84268 Length: 12 September 17, 2003 14:26 Type: N Check: 5956 ..
abH84268
Query Match          50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2740 TCACATATAAT 2749
      |||||
Db      10 TCACATATAAT 1

RESULT 354
abH84269/c
; TOIG of: abH84269 check: 5769 from: 1 to: 12

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```

; ID ABH84269 standard; DNA; 12 BP.
; XX
; AC ABH84269;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 284262 for detecting SNP TSC0011745.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001MO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPiG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/5.
; DT
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; PS
; PS Claim 1: SEQ ID 284262; 29pp + Sequence listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABH00010-ABH82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SQ Sequence 12 BP; 3 A; 1 C; 2 G; 6 T; 0 other;
;
; ABH84269 Length: 12 September 17, 2003 14:26 Type: N Check: 5769 ..
; abh84269

Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2740 TCAATTAAT 2749
DB 10 TCAATTAAT 1

RESULT 355
abh89678/c
; TOIG of: abh89678 check: 5942 from: 1 to: 12
; ID ABH89678 standard; DNA; 12 BP.
; XX
; AC ABH89678;
; XX
; KW 22-FEB-2002 (first entry)
; DT
; DT Oligonucleotide primer SEQ ID NO 289671 for detecting SNP TSC0014037.
; DE

```

```

; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001MO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPiG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/5.
; DT
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; PS
; PS Claim 1: SEQ ID 289671; 29pp + Sequence listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABH00010-ABH82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SQ Sequence 12 BP; 6 A; 0 C; 1 G; 5 T; 0 other;
;
; ABH89678 Length: 12 September 17, 2003 14:26 Type: N Check: 5942 ..
; abh89678

Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2745 AAAATTCCTT 2754
DB 12 AAAATTCCTT 3

RESULT 356
abh92038/c
; TOIG of: abh92038 check: 6136 from: 1 to: 12
; ID ABH92038 standard; DNA; 12 BP.
; XX
; AC ABH92038;
; XX
; DE 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 292031 for detecting SNP TSC0015057.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.

```

```
; XX 18-OCT-2001.
; PD
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; PF
; XX 07-APR-2000; 2000DE-1019173.
; PR
; XX (EPiG-) EPIGENOMICS AG.
; PA
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX WPI: 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 292031; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABC100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; XX
; SQ Sequence 12 BP; 3 A; 0 C; 2 G; 7 T; 0 other;
; ABH92038 Length: 12 September 17, 2003 14:26 Type: N Check: 6136 ..
; abh92038

Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2742 AATTAATTC 2751
Db 10 AATTAATTC 1

RESULT 357
abh92050
; TOIG of: abh92050 check: 6056 from: 1 to: 12
; ID ABH92050 standard; DNA; 12 BP.
; XX
; AC ABH92050;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 292043 for detecting SNP TSC0015060.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPiG-) EPIGENOMICS AG.
```

```
; XX Olek A, Piepenbrock C, Berlin K;
; PI WPI: 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 292043; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABC100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; XX
; SQ Sequence 12 BP; 4 A; 2 C; 0 G; 6 T; 0 other;
; ABH92050 Length: 12 September 17, 2003 14:26 Type: N Check: 6056 ..
; abh92050

Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2745 AATTCCTT 2754
Db 1 AATTCCTT 10

RESULT 358
abh93032
; TOIG of: abh93032 check: 5456 from: 1 to: 12
; ID ABH93032 standard; DNA; 12 BP.
; XX
; AC ABH93032;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 293025 for detecting SNP TSC0015466.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPiG-) EPIGENOMICS AG.
; PD 18-OCT-2001.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; DR WPI: 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
```

```

; PS Claim 1; SEQ ID 293025; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 7 A; 1 C; 0 G; 4 T; 0 other;
;
; ABH93032 Length: 12 September 17, 2003 14:26 Type: N Check: 5456 ..
; abh93032
;
; Query Match 50.0%; Score 10; DB 1; Length 12;
; Best Local Similarity 100.0%; Pred. No. 1.4e+02;
; Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
;
; QY 2740 TCATTAAT 2749
; Db 2 TCATTAAT 11
;
; RESULT 359
; abh94141/c
; TOIG of: abh94141 check: 5752 from: 1 to: 12
;
; ID ABH94141 standard; DNA; 12 BP.
; XX
; AC ABH94141;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 294134 for detecting SNP TSC0015968.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PE 06-APR-2001; 2001WO-IB00713.
; XX
; PF 07-APR-2000; 2000DE-1019173.
; XX
; PR (EPIC-) EPIGENOMICS AG.
; XX
; PA Olek A, Piepenbrock C, Berlin K;
; XX
; PI
; PS WPI; 2001-657177/75.
; XX
; DR
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PT
; XX
; CC Claim 1; SEQ ID 294134; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,

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; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 5 A; 1 C; 2 G; 4 T; 0 other;
;
; ABH94141 Length: 12 September 17, 2003 14:26 Type: N Check: 5752 ..
; abh94141
;
; Query Match 50.0%; Score 10; DB 1; Length 12;
; Best Local Similarity 100.0%; Pred. No. 1.4e+02;
; Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
;
; QY 2744 TAAATTCCT 2753
; Db 10 TAAATTCCT 1
;
; RESULT 360
; abh99102/c
; TOIG of: abh99102 check: 5767 from: 1 to: 12
;
; ID ABH99102 standard; DNA; 12 BP.
; XX
; AC ABH99102;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 299095 for detecting SNP TSC0018429.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PE 06-APR-2001; 2001WO-IB00713.
; XX
; PF 07-APR-2000; 2000DE-1019173.
; XX
; PR (EPIC-) EPIGENOMICS AG.
; XX
; PA Olek A, Piepenbrock C, Berlin K;
; XX
; PI
; PS WPI; 2001-657177/75.
; XX
; DR
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PT
; XX
; CC Claim 1; SEQ ID 299095; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.

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; SQ Sequence 12 BP; 6 A; 0 C; 2 G; 4 T; 0 other;
; ABH99102 Length: 12 September 17, 2003 14:26 Type: N Check: 5767 ..
abh99102

Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2746 AATATCTTT 2755
|||||
Db 11 AATATCTTT 2

RESULT 361
ab102555
; TOIG of: ab102555 check: 5588 from: 1 to: 12
; ID AB102555 standard; DNA; 12 BP.
; XX
; AC AB102555;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 302528 for detecting SNP TSC0020049.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX Homo sapiens.
; OS
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIDENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-65717/75.
; DR
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; PS
; XX
; PS Claim 1; SEQ ID 302528; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 8 A; 1 C; 0 G; 3 T; 0 other;
; AB102555 Length: 12 September 17, 2003 14:26 Type: N Check: 5588 ..
ab102555

Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2742 AATAAATTC 2751
|||||
Db 3 AATAAATTC 12

RESULT 362
ab103540/c
; TOIG of: ab103540 check: 5949 from: 1 to: 12
; ID AB103540 standard; DNA; 12 BP.
; XX
; AC AB103540;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 303513 for detecting SNP TSC0020511.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX Homo sapiens.
; OS
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIDENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-65717/75.
; DR
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; PS
; XX
; PS Claim 1; SEQ ID 303513; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 6 A; 0 C; 1 G; 5 T; 0 other;
; AB103540 Length: 12 September 17, 2003 14:26 Type: N Check: 5949 ..
ab103540

Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2745 AATATCTTT 2754
|||||
Db 10 AATATCTTT 1

RESULT 363
ab106132/c

```

; TOIG of: ab106132 check: 5961 from: 1 to: 12
; ID AB106132 standard; DNA; 12 BP.
; XX AB106132;
; AC AB106132;
; XX 22-FEB-2002 (first entry)
; DT
; DE Oligonucleotide primer SEQ ID NO 306105 for detecting SNP TSC0021806.
; XX
; XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; XX Homo sapiens.
; OS
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; PF
; PR 07-APR-2000; 2000DE-1019173.
; XX
; XX (EPIC-) EPIGENOMICS AG.
; PA
; PI Olek A, Plepenbrock C, Berlin K;
; XX
; XX WPI; 2001-657177/75.
; DR
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; XX Claim 1; SEQ ID 306105; 29pp + Sequence Listing; German.
; PS
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; XX Sequence 12 BP; 5 A; 0 C; 1 G; 6 T; 0 other;
; SO
; AB106132 Length: 12 September 17, 2003 14:26 Type: N Check: 5961 ..
; ab106132
Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 2745 AAAATCTTT 2754
| | | | |
Db 12 AAAATCTTT 3

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; DE Oligonucleotide primer SEQ ID NO 306198 for detecting SNP TSC0021860.
; XX
; XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; XX Homo sapiens.
; OS
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; PF
; PR 07-APR-2000; 2000DE-1019173.
; XX
; XX (EPIC-) EPIGENOMICS AG.
; PA
; PI Olek A, Plepenbrock C, Berlin K;
; XX
; XX WPI; 2001-657177/75.
; DR
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; XX Claim 1; SEQ ID 306198; 29pp + Sequence Listing; German.
; PS
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; XX Sequence 12 BP; 2 A; 0 C; 3 G; 7 T; 0 other;
; SO
; AB106225 Length: 12 September 17, 2003 14:26 Type: N Check: 5832 ..
; ab106225
Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 2739 CTCATATAA 2748
| | | | |
Db 11 CTCATATAA 2

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RESULT 364
ab106225/c
; TOIG of: ab106225 check: 5832 from: 1 to: 12
; ID AB106225 standard; DNA; 12 BP.
; XX
; AC AB106225;
; XX
; XX 22-FEB-2002 (first entry)
; DT
; XX

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RESULT 365
ab108337
; TOIG of: ab108337 check: 5718 from: 1 to: 12
; ID AB108337 standard; DNA; 12 BP.
; XX
; AC AB108337;
; XX
; XX 22-FEB-2002 (first entry)
; DT
; DE Oligonucleotide primer SEQ ID NO 308310 for detecting SNP TSC0022947.
; XX
; XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS
; XX Homo sapiens.
; XX

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; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PE 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI: 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 308310; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABI00010-ABI82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 7 A; 1 C; 0 G; 4 T; 0 other;
;
; ABI08337 Length: 12 September 17, 2003 14:26 Type: N Check: 5718 ..
;
; ab108337
;
Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2741 CAATAAATTT 2750
   |||||||
Db 1 CAATAAATTT 10

RESULT 366
ab111210/c
; TOIG of: ab111210 check: 6162 from: 1 to: 12
;
; ID AB111210 standard; DNA; 12 BP.
; AC
; AB111210;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 311183 for detecting SNP TSC0024345.
; XX
; SNF, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS
; Homo sapiens.
; XX
; WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PE 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
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; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI: 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 311183; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABI00010-ABI82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 3 A; 0 C; 1 G; 8 T; 0 other;
;
; AB111210 Length: 12 September 17, 2003 14:26 Type: N Check: 6162 ..
;
; ab111210
;
Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2741 CAATAAATTT 2750
   |||||||
Db 11 CAATAAATTT 2

RESULT 367
ab112839/c
; TOIG of: ab112839 check: 5975 from: 1 to: 12
;
; ID AB112839 standard; DNA; 12 BP.
; AC
; AB112839;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 312812 for detecting SNP TSC0025319.
; XX
; SNF, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS
; Homo sapiens.
; XX
; WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PE 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI: 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
```

```

; PT methylation status -
; XX
; PS Claim 1; SEQ ID 312812; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; XX
; SQ Sequence 12 BP; 2 A; 0 C; 3 G; 7 T; 0 other;
;
; AB112839 Length: 12 September 17, 2003 14:26 Type: N Check: 5975 ..
; ab112839

Query Match
Best Local Similarity 50.0%; Score 10; DB 1; Length 12;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2739 CTCGAATATAA 2748
DB 11 CTCGAATATAA 2

RESULT 368
ab116006/c
; TOIG of: ab116006 check: 5753 from: 1 to: 12
;
; ID AB116006 standard; DNA; 12 BP.
; XX
; AC AB116006;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 315979 for detecting SNP TSC0027214.
; XX
; SNR: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 315979; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a

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; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; XX
; SQ Sequence 12 BP; 2 A; 0 C; 4 G; 6 T; 0 other;
;
; AB116006 Length: 12 September 17, 2003 14:26 Type: N Check: 5753 ..
; ab116006

Query Match
Best Local Similarity 50.0%; Score 10; DB 1; Length 12;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2739 CTCGAATATAA 2748
DB 10 CTCGAATATAA 1

RESULT 369
ab120807
; TOIG of: ab120807 check: 5650 from: 1 to: 12
;
; ID AB120807 standard; DNA; 12 BP.
; XX
; AC AB120807;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 320780 for detecting SNP TSC0029876.
; XX
; SNR: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 320780; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.

```

```
; XX Sequence 12 BP; 6 A; 2 C; 0 G; 4 T; 0 other;
; AB120807 Length: 12 September 17, 2003 14:26 Type: N Check: 5650
ab120807

Query Match      50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy      2741 CAATAAAATT 2750
Db      3 CAATAAAATT 12

RESULT 370
ab120916/c
; TOIG of: ab120916 check: 5903 from: 1 to: 12
; ID AB120916 standard; DNA; 12 BP.
; XX
; AC AB120916;
; XX
; DT 22-FEB-2002 (first entry)
; DE
; DE Oligonucleotide primer SEQ ID NO 320889 for detecting SNP TSC0029948.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; PI
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 320889; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 4 A; 0 C; 1 G; 7 T; 0 other;
; AB120916 Length: 12 September 17, 2003 14:26 Type: N Check: 5903
ab120916

Query Match      50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
```

```
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Oy      2740 TCAATAAAAT 2749
Db      10 TCAATAAAAT 1

RESULT 371
ab121877
; TOIG of: ab121877 check: 5492 from: 1 to: 12
; ID AB121877 standard; DNA; 12 BP.
; XX
; AC AB121877;
; XX
; DT 22-FEB-2002 (first entry)
; DE
; DE Oligonucleotide primer SEQ ID NO 321850 for detecting SNP TSC0030531.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; PI
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 321850; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 7 A; 2 C; 0 G; 3 T; 0 other;
; AB121877 Length: 12 September 17, 2003 14:26 Type: N Check: 5492
ab121877

Query Match      50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy      2742 AATATAATTC 2751
Db      1 AATATAATTC 10

RESULT 372
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ab121903/c
; TOIG of: ab121903 check: 5927 from: 1 to: 12
; ID AB121903 standard; DNA; 12 BP.
; AC AB121903;
; XX
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 321876 for detecting SNP TSC0030538.
; XX
; KM SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPiG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; PS Claim 1: SEQ ID 321876; 29pp + sequence listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABR00010-ABR99989, ABH00010-ABH99989 and
; CC ABI00010-ABI82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pot_sequences.
; XX
; SO Sequence 12 BP; 4 A; 0 C; 2 G; 6 T; 0 other;
; AB121903 Length: 12 September 17, 2003 14:26 Type: N Check: 5927 ..
ab121903

Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2742 AATAAATTC 2751
DB 10 AATAAATTC 1

RESULT 373
ab122339/c
; TOIG of: ab122339 check: 5994 from: 1 to: 12
; ID AB122339 standard; DNA; 12 BP.
; AC AB122339;
; XX
; XX AB122339;
; XX
; DT 22-FEB-2002 (first entry)

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; XX
; DE Oligonucleotide primer SEQ ID NO 322312 for detecting SNP TSC0030794.
; XX
; KM SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPiG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; PS Claim 1: SEQ ID 322312; 29pp + sequence listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABR00010-ABR99989, ABH00010-ABH99989 and
; CC ABI00010-ABI82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pot_sequences.
; XX
; SO Sequence 12 BP; 4 A; 0 C; 1 G; 7 T; 0 other;
; AB122339 Length: 12 September 17, 2003 14:26 Type: N Check: 5994 ..
ab122339

Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2742 AATAAATTC 2751
DB 11 AATAAATTC 2

RESULT 374
ab122468
; TOIG of: ab122468 check: 5316 from: 1 to: 12
; ID AB122468 standard; DNA; 12 BP.
; AC AB122468;
; XX
; XX
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 322441 for detecting SNP TSC0030876.
; KM SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.

```

```

; XX WO200177384-A2.
; PN
; XX 18-OCT-2001.
; PD
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; PR
; XX 07-APR-2000; 2000DE-1019173.
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; DR
; XX
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; CC
; PS Claim 1; SEQ ID 322441; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABH00010-ABH2073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SQ Sequence 12 BP; 7 A; 3 C; 0 G; 2 T; 0 other;
; AB122468 Length: 12 September 17, 2003 14:26 Type: N Check: 5316 ..
; AB122468

Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2739 CTCATATATA 2748
DB 3 CTCATATATA 12

RESULT 375
AB123067
; TOIG of: ab123067 check: 5291 from: 1 to: 12
; ID AB123067 standard; DNA; 12 BP.
; XX
; AC AB123067;
; XX
; XX 22-FEB-2002 (first entry)
; DT
; XX
; DE Oligonucleotide primer SEQ ID NO 323040 for detecting SNP TSC0031190.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; PR
; XX 07-APR-2000; 2000DE-1019173.
; PA
; PT

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; XX (EPIG-) EPIGENOMICS AG.
; PN
; XX Olek A, Piepenbrock C, Berlin K;
; PI
; PS WPI; 2001-657177/75.
; DR
; XX
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; CC
; PS Claim 1; SEQ ID 323040; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABH00010-ABH2073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SQ Sequence 12 BP; 7 A; 2 C; 0 G; 3 T; 0 other;
; AB123067 Length: 12 September 17, 2003 14:26 Type: N Check: 5291 ..
; AB123067

Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2739 CTCATATATA 2748
DB 2 CTCATATATA 11

RESULT 376
AB127009
; TOIG of: ab127009 check: 5230 from: 1 to: 12
; ID AB127009 standard; DNA; 12 BP.
; XX
; AC AB127009;
; XX
; XX 22-FEB-2002 (first entry)
; DT
; XX
; DE Oligonucleotide primer SEQ ID NO 326982 for detecting SNP TSC0033390.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; PR
; XX 07-APR-2000; 2000DE-1019173.
; PA
; PS (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; DR
; XX
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT

```

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; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; PS Claim 1; SEQ ID 326982; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABT00010-ABT82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SQ Sequence 12 BP; 8 A; 2 C; 0 G; 2 T; 0 other;
; AB177009 Length: 12 September 17, 2003 14:26 Type: N Check: 5230 ..
; ab127009

Query Match
Best Local Similarity 100.0%; Score 10; DB 1; Length 12;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2739 CTCATTAATA 2748
DB 1 CTCATTAATA 10

RESULT 377
ab136719
; TOIG of: ab136719 check: 5606 from: 1 to: 12
; ID AB136719 standard; DNA; 12 BP.
; AC AB136719;
; XX
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 336692 for detecting SNP TSC0039465.
; XX
; SN SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIG-) EPIGENOMICS AG.
; PI Olek A, Plepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; CC Set of oligonucleotides, useful for diagnosis and cell typing, is
; CC designed to detect single nucleotide polymorphisms and cytosine
; CC methylation status
; CC
; CC Claim 1; SEQ ID 336692; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABT00010-ABT82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SQ Sequence 12 BP; 8 A; 2 C; 0 G; 2 T; 0 other;
; AB177009 Length: 12 September 17, 2003 14:26 Type: N Check: 5230 ..
; ab127009

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; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABT00010-ABT82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SQ Sequence 12 BP; 7 A; 1 C; 0 G; 4 T; 0 other;
; AB16719 Length: 12 September 17, 2003 14:26 Type: N Check: 5606 ..
; ab136719

Query Match
Best Local Similarity 100.0%; Score 10; DB 1; Length 12;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2740 TCATTAATAAT 2749
DB 1 TCATTAATAAT 10

RESULT 378
ab138338
; TOIG of: ab138338 check: 5681 from: 1 to: 12
; ID AB138338 standard; DNA; 12 BP.
; AC AB138338;
; XX
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 338311 for detecting SNP TSC0008393.
; XX
; SN SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIG-) EPIGENOMICS AG.
; PI Olek A, Plepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; CC Set of oligonucleotides, useful for diagnosis and cell typing, is
; CC designed to detect single nucleotide polymorphisms and cytosine
; CC methylation status
; CC
; CC Claim 1; SEQ ID 338311; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABT00010-ABT82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SQ Sequence 12 BP; 7 A; 1 C; 0 G; 4 T; 0 other;
; AB16719 Length: 12 September 17, 2003 14:26 Type: N Check: 5606 ..
; ab136719

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```
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 12 BP; 6 A; 2 C; 0 G; 4 T; 0 other;
AB138338 Length: 12 September 17, 2003 14:26 Type: N Check: 5681 ..
ab138338

Query Match      50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2743 AATAAATTC 2752
DB 2 AATAAATTC 11

RESULT 379
ab139707
TOIG of: ab139707 check: 6019 from: 1 to: 12
ID AB139707 standard; DNA; 12 BP.
XX
XX AB139707;
XX AC
XX AB139707;
XX 22-FEB-2002 (first entry)
XX
XX Oligonucleotide primer SEQ ID NO 339680 for detecting SNP TSC0041134.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis: PNA; cancer: CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer: ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX OS
XX WO200177384-A2.
XX PN
XX 18-OCT-2001.
XX PD
XX 06-APR-2001; 2001WO-IB00713.
XX PF
XX 07-APR-2000; 2000DE-1019173.
XX PR
XX (EPIG-) EPIGENOMICS AG.
XX PA
XX Olek A, Piepenbrock C, Berlin K;
XX PI
XX WPI; 2001-657177/75.
XX PS
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status -
XX
XX Claim 1; SEQ ID 339680; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX
XX ABE00010-ABC99989, ABE00010-ABF99989, ABH00010-ABH99989 and
XX AB100010-AB182073 represent the oligomers described in the invention.
XX
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 12 BP; 5 A; 1 C; 0 G; 6 T; 0 other;
SQ
AB139707 Length: 12 September 17, 2003 14:26 Type: N Check: 6019 ..
ab139707

Query Match      50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2742 AATAAATTC 2751
DB 10 AATAAATTC 1
```

```
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2745 AAAATTCCTT 2754
DB 3 AAAATTCCTT 12

RESULT 380
ab139804/c
TOIG of: ab139804 check: 6292 from: 1 to: 12
ID AB139804 standard; DNA; 12 BP.
XX
XX AB139804;
XX AC
XX AB139804;
XX 22-FEB-2002 (first entry)
XX
XX Oligonucleotide primer SEQ ID NO 339777 for detecting SNP TSC005894.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis: PNA; cancer: CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer: ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX OS
XX WO200177384-A2.
XX PN
XX 18-OCT-2001.
XX PD
XX 06-APR-2001; 2001WO-IB00713.
XX PF
XX 07-APR-2000; 2000DE-1019173.
XX PR
XX (EPIG-) EPIGENOMICS AG.
XX PA
XX Olek A, Piepenbrock C, Berlin K;
XX PI
XX WPI; 2001-657177/75.
XX PS
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status -
XX
XX Claim 1; SEQ ID 339777; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX
XX ABE00010-ABC99989, ABE00010-ABF99989, ABH00010-ABH99989 and
XX AB100010-AB182073 represent the oligomers described in the invention.
XX
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 12 BP; 3 A; 0 C; 1 G; 8 T; 0 other;
SQ
ab139804 Length: 12 September 17, 2003 14:26 Type: N Check: 6292 ..
ab139804

Query Match      50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
RESULT 381
abi45065/c
; TOIG of: abi45065 check: 5946 from: 1 to: 12
; ID ABI45065 standard; DNA: 12 BP.
; XX
; AC ABI45065.
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 345038 for detecting SNP TSC0043841.
; XX
; SNR: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS
; Homo sapiens.
; XX
; MO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PE 06-APR-2001; 2001MO-IB00713.
; XX
; PF 07-APR-2000; 2000DE-1019173.
; XX
; PR (EPiG-) EPIGENOMICS AG.
; PA
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1: SEQ ID 345038; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 3 A; 0 C; 2 G; 7 T; 0 other;
; AB145065 Length: 12 September 17, 2003 14:26 Type: N Check: 5946 ..
abi45065
Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2740 TCATAAAT 2749 *
| | | | | | | |
Db 12 TCATAAAT 3

RESULT 382
abi45622/c
; TOIG of: abi45622 check: 6143 from: 1 to: 12
; ID ABI45622 standard; DNA: 12 BP.
; XX
; AC ABI45622;
; XX
; DE Oligonucleotide primer SEQ ID NO 348095 for detecting SNP TSC0000614.
; XX
; SNR: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS
; Homo sapiens.
; XX
; MO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PE 06-APR-2001; 2001MO-IB00713.
; XX
; PF 07-APR-2000; 2000DE-1019173.
; XX
; PR (EPiG-) EPIGENOMICS AG.
; PA
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1: SEQ ID 345595; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 4 A; 0 C; 1 G; 7 T; 0 other;
; AB145622 Length: 12 September 17, 2003 14:26 Type: N Check: 6143 ..
abi45622
Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2741 CAATTAAT 2750
| | | | | | | |
Db 11 CAATTAAT 2
```

```
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 345595 for detecting SNP TSC0044109.
; XX
; SNR: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS
; Homo sapiens.
; XX
; MO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PE 06-APR-2001; 2001MO-IB00713.
; XX
; PF 07-APR-2000; 2000DE-1019173.
; XX
; PR (EPiG-) EPIGENOMICS AG.
; PA
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1: SEQ ID 345595; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 4 A; 0 C; 1 G; 7 T; 0 other;
; AB145622 Length: 12 September 17, 2003 14:26 Type: N Check: 6143 ..
abi45622
Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2741 CAATTAAT 2750
| | | | | | | |
Db 11 CAATTAAT 2

RESULT 383
abi48122
; TOIG of: abi48122 check: 5509 from: 1 to: 12
; ID ABI48122 standard; DNA: 12 BP.
; XX
; AC ABI48122;
; XX
; DE 22-FEB-2002 (first entry)
; XX
; SNR: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS
; Homo sapiens.
; XX
; MO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PE 06-APR-2001; 2001MO-IB00713.
; XX
; PF 07-APR-2000; 2000DE-1019173.
; XX
; PR (EPiG-) EPIGENOMICS AG.
; PA
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1: SEQ ID 345595; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 4 A; 0 C; 1 G; 7 T; 0 other;
; AB145622 Length: 12 September 17, 2003 14:26 Type: N Check: 6143 ..
abi45622
Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2741 CAATTAAT 2750
| | | | | | | |
Db 11 CAATTAAT 2
```

```

; OS Homo sapiens.
; XX
; XX WO200177384-A2.
; XX
; XX 18-OCT-2001.
; PD
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; XX 07-APR-2000; 2000DE-1019173.
; PR
; XX (EPIG-) EPIGENOMICS AG.
; PA
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; DR
; XX
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; PS Claim 1; SEQ ID 348095; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB12073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SO Sequence 12 BP; 8 A; 1 C; 0 G; 3 T; 0 other;
;
; AB148122 Length: 12 September 17, 2003 14:26 Type: N Check: 5509 ..
; ab148122

Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2741 CAATAAAATT 2750
Db 1 CAATAAAATT 10

RESULT 384
ab152402/c
; TOIG of: ab152402 check: 5884 from: 1 to: 12
;
; ID AB152402 standard; DNA; 12 BP.
; AC
; XX AB152402;
; AC
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 352375 for detecting SNP TSC0047846.
; XX
; XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; XX WO200177384-A2.
; XX
; XX 18-OCT-2001.
; PD
; PF 06-APR-2001; 2001WO-IB00713.
; PR
; XX
; XX WPI; 2001-657177/75.

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; PR 07-APR-2000; 2000DE-1019173.
; XX
; XX (EPIG-) EPIGENOMICS AG.
; PA
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; DR
; XX
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; PS Claim 1; SEQ ID 352375; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB12073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SO Sequence 12 BP; 4 A; 0 C; 1 G; 7 T; 0 other;
;
; AB152402 Length: 12 September 17, 2003 14:26 Type: N Check: 5884 ..
; ab152402

Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2740 TCATAAAATT 2749
Db 10 TCATAAAATT 1

RESULT 385
ab152976
; TOIG of: ab152976 check: 5623 from: 1 to: 12
;
; ID AB152976 standard; DNA; 12 BP.
; AC
; XX AB152976;
; AC
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 352949 for detecting SNP TSC0048193.
; XX
; XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; XX WO200177384-A2.
; XX
; XX 18-OCT-2001.
; PD
; PF 06-APR-2001; 2001WO-IB00713.
; PR
; XX
; XX 07-APR-2000; 2000DE-1019173.
; PR
; XX (EPIG-) EPIGENOMICS AG.
; PA
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; DR
; XX

```

```

; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1: SEQ ID 352949; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABH00010-ABH82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp://ipo.int/pub/published_pct_sequences.
; CC
; SQ Sequence 12 BP; 6 A; 2 C; 0 G; 4 T; 0 other;
; ABIS2976 Length: 12 September 17, 2003 14:26 Type: N Check: 5623 ..
; ABIS2976
;
Query Match
Best Local Similarity 50.0%; Score 10; DB 1; Length 12;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2743 ATAAATTTCT 2752
DB 1 ATAAATTTCT 10

RESULT 386
ABIS6661/C
; TOIG of: abis6661 check: 6112 from: 1 to: 12
; ID ABIS6661 standard; DNA; 12 BP.
; AC ABIS6661;
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 356634 for detecting SNP TSC0050230.
; XX
; OS Homo sapiens.
; SN SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIDENOMICS AG.
; PI Olek A, Plepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; DR
; CC Set of oligonucleotides, useful for diagnosis and cell typing, is
; CC designed to detect single nucleotide polymorphisms and cytosine
; CC methylation status
; XX
; PS Claim 1: SEQ ID 356634; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)

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```

; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABH00010-ABH82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp://ipo.int/pub/published_pct_sequences.
; CC
; SQ Sequence 12 BP; 3 A; 0 C; 1 G; 8 T; 0 other;
; ABIS6661 Length: 12 September 17, 2003 14:26 Type: N Check: 6112 ..
; ABIS6661
;
Query Match
Best Local Similarity 50.0%; Score 10; DB 1; Length 12;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2740 TCAATTAAT 2749
DB 10 TCAATTAAT 1

RESULT 387
ABIS6930/C
; TOIG of: abis6930 check: 5909 from: 1 to: 12
; ID ABIS6930 standard; DNA; 12 BP.
; AC ABIS6930;
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 356903 for detecting SNP TSC0050367.
; XX
; OS Homo sapiens.
; SN SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIDENOMICS AG.
; PI Olek A, Plepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; DR
; CC Set of oligonucleotides, useful for diagnosis and cell typing, is
; CC designed to detect single nucleotide polymorphisms and cytosine
; CC methylation status
; XX
; PS Claim 1: SEQ ID 356903; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABH00010-ABH82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed

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: CC specification, but was obtained in electronic format from WIPO at
: CC ftp.wipo.int/pub/published_pct_sequences.
: XX
: SQ Sequence 12 BP; 2 A; 0 C; 3 G; 7 T; 0 other;
: ABI56930 Length: 12 September 17, 2003 14:26 Type: N Check: 5909 ..
: abi56930
Oy 2739 CTCATATAAA 2748
Db 10 CTCATATAAA 1
RESULT 388
abi57374
: TOIG of: abi57374 check: 5698 from: 1 to: 12
: ID ABI57374 standard; DNA; 12 BP.
: AC ABI57374;
: XX
: DT 22-FEB-2002 (first entry)
: DE Oligonucleotide primer SEQ ID NO 357347 for detecting SNP TSC0050572.
: XX
: KM SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
: KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
: KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
: OS Homo sapiens.
: XX
: PN WO200177384-A2.
: PD 18-OCT-2001.
: XX
: PF 06-APR-2001; 2001WO-1B00713.
: XX
: PR 07-APR-2000; 2000DE-1019173.
: PA (EPIG-) EPIGENOMICS AG.
: PI Olek A, Piepenbrock C, Berlin K;
: XX
: DR WPI; 2001-657177/75.
: XX
: PT Set of oligonucleotides, useful for diagnosis and cell typing, is
: PT designed to detect single nucleotide polymorphisms and cytosine
: PT methylation status
: PS Claim 1; SEQ ID 357347; 29pp + Sequence Listing; German.
: XX
: CC This invention describes novel oligonucleotide primers or peptide nucleic
: CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
: CC and cytosine methylation status in chemically pretreated genomic DNA. The
: CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
: CC range of diseases including immune system, gastrointestinal, respiratory,
: CC central nervous system, cardiovascular and metabolic disorders. The
: CC oligomers are also used for detecting cell type differentiation.
: CC ABC00010-ABCG99989, ABF00010-ABF99989, ABH00010-ABH99989 and
: CC ABC00010-ABH8073 represent the oligomers described in the invention.
: CC NOTE: The sequence data for this patent did not form part of the printed
: CC specification, but was obtained in electronic format from WIPO at
: CC ftp.wipo.int/pub/published_pct_sequences.
: XX
: SQ Sequence 12 BP; 6 A; 1 C; 0 G; 5 T; 0 other;
: ABI57374 Length: 12 September 17, 2003 14:26 Type: N Check: 5698 ..
: abi57374

```

```

Query Match          50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2743 ATAAATTCCT 2752
      |||||||
Db      2 ATAAATTCCT 11

RESULT 389
ab158171/c
TOIG of: ab158171 check: 5886 from: 1 to: 12

ID      AB158171 standard; DNA; 12 BP.
AC      AB158171;
DT      22-FEB-2002 (first entry)
DE      Oligonucleotide primer SEQ ID NO 358144 for detecting SNP TSC0050972.
KW      SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW      peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW      central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX      Homo sapiens.
XX
XX      WO200177384-A2.
XX      18-OCT-2001.
XX      06-APR-2001; 2001WO-1B00713.
XX      07-APR-2000; 2000DE-1019173.
XX      (EPIG-) EPIGENOMICS AG.
XX      Olek A, Piepenbrock C, Berlin K;
XX      WPI; 2001-657177/75.
XX
PT      Set of oligonucleotides, useful for diagnosis and cell typing, is
PT      designed to detect single nucleotide polymorphisms and cytosine
PT      methylation status
XX
PS      Claim 1; SEQ ID 358144; 29pp + Sequence Listing; German.
XX
XX      This invention describes novel oligonucleotide primers or peptide nucleic
XX      acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX      and cytosine methylation status in chemically pretreated genomic DNA. The
XX      oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX      range of diseases including immune system, gastrointestinal, respiratory,
XX      central nervous system, cardiovascular and metabolic disorders. The
XX      oligomers are also used for detecting cell type differentiation.
XX      ABC000010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX      ABI00010-ABI82073 represent the oligomers described in the invention.
XX      NOTE: The sequence data for this patent did not form part of the printed
XX      specification, but was obtained in electronic format from WIPO at
XX      ftp.wipo.int/pub/published_pct_sequences.
XX
SQ      sequence 12 BP; 5 A; 0 C; 1 G; 6 T; 0 other;
; AB158171 Length: 12 September 17, 2003 14:26 Type: N Check: 5886 ..
ab158171

Query Match          50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2743 ATAAATTCCT 2752
      |||||||
Db      11 ATAAATTCCT 2

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RESULT 390
ab159718
; TOIG of: ab159718 check: 5533 from: 1 to: 12
; ID AB159718 standard; DNA; 12 BP.
; XX AB159718;
; AC
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 359691 for detecting SNP TSC0004559.
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001MO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPiG-) EPIGENOMICS AG.
; XX
; PI Olek A, Plepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 359691; 29pp + Sequence listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 7 A; 2 C; 0 G; 3 T; 0 other;
; AB159718 Length: 12 September 17, 2003 14:26 Type: N Check: 5533 ..
ab159718

Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2741 CAATTAATTC 2750
Db 1 CAATTAATTC 10

RESULT 391
ab162539
; TOIG of: ab162539 check: 5529 from: 1 to: 12
; ID AB162539 standard; DNA; 12 BP.
; XX
; AC AB162539;
; KW

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; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 362512 for detecting SNP TSC0053272.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001MO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPiG-) EPIGENOMICS AG.
; XX
; PI Olek A, Plepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 362512; 29pp + Sequence listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 8 A; 1 C; 0 G; 3 T; 0 other;
; AB162539 Length: 12 September 17, 2003 14:26 Type: N Check: 5529 ..
ab162539

Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2742 AATTAATTC 2751
Db 2 AATTAATTC 11

RESULT 392
ab162540
; TOIG of: ab162540 check: 5601 from: 1 to: 12
; ID AB162540 standard; DNA; 12 BP.
; XX
; AC AB162540;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 362513 for detecting SNP TSC0053272.
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.

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; XX Homo sapiens.
; OS
; XX
; XX WO200177384-A2.
; PN
; XX
; XX 18-OCT-2001.
; PD
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; PE
; XX
; XX 07-APR-2000; 2000DE-1019173.
; PR
; XX
; XX (EPIG-) EPIGENOMICS AG.
; PA
; XX Olek A, Piepenbrock C, Berlin K;
; PI
; XX WPI; 2001-657177/75.
; DR
; XX
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; PS
; XX
; XX Claim 1; SEQ ID 362513; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; XX Sequence 12 BP; 7 A; 1 C; 1 G; 3 T; 0 other;
; SQ
; AB162540 Length: 12 September 17, 2003 14:26 Type: N Check: 5601 ..
; ab162540

Query Match      50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2742 AATAAAATTC 2751
   |||||||
Db 2 AATAAAATTC 11

RESULT 393
ab163588/c
; TOIG of: ab163588 check: 5843 from: 1 to: 12
; ID AB163588 standard; DNA; 12 BP.
; AC AB163588;
; XX
; XX 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 363561 for detecting SNP TSC0053940.
; DN
; XX
; XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; XX Homo sapiens.
; OS
; XX
; XX WO200177384-A2.
; PN
; XX
; XX 18-OCT-2001.
; PD
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; PE
; XX
; XX (EPIG-) EPIGENOMICS AG.
; PA
; XX Olek A, Piepenbrock C, Berlin K;
; PI
; XX WPI; 2001-657177/75.
; DR
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; XX
; XX 07-APR-2000; 2000DE-1019173.
; PR
; XX
; XX (EPIG-) EPIGENOMICS AG.
; PA
; XX
; XX Olek A, Piepenbrock C, Berlin K;
; PI
; XX WPI; 2001-657177/75.
; DR
; XX
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; PS
; XX
; XX Claim 1; SEQ ID 363561; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; XX Sequence 12 BP; 3 A; 0 C; 2 G; 7 T; 0 other;
; SQ
; AB163588 Length: 12 September 17, 2003 14:26 Type: N Check: 5843 ..
; ab163588

Query Match      50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2739 CTCATATATA 2748
   |||||||
Db 10 CTCATATATA 1

RESULT 394
ab165717
; TOIG of: ab165717 check: 5496 from: 1 to: 12
; ID AB165717 standard; DNA; 12 BP.
; AC AB165717;
; XX
; XX 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 365690 for detecting SNP TSC0055270.
; DN
; XX
; XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; XX Homo sapiens.
; OS
; XX
; XX WO200177384-A2.
; PN
; XX
; XX 18-OCT-2001.
; PD
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; PE
; XX
; XX 07-APR-2000; 2000DE-1019173.
; PR
; XX
; XX (EPIG-) EPIGENOMICS AG.
; PA
; XX Olek A, Piepenbrock C, Berlin K;
; PI
; XX WPI; 2001-657177/75.
; DR
```

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; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 365690; 29pp + Sequence Listing; German.
; CC
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 8 A; 1 C; 0 G; 3 T; 0 other;
;
; AB165717 Length: 12 September 17, 2003 14:26 Type: N Check: 5496 ..
; ab165717

Query Match      50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY      2740 TCAATAAAT 2749
DB      3 TCAATAAAT 12

RESULT 395
ab165810
; TOIG of: ab165810 check: 5553 from: 1 to: 12
; ID AB165810 standard; DNA; 12 BP.
; AC
; AB165810;
; DT
; 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 365783 for detecting SNP TSC0055339.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD
; 18-OCT-2001.
; XX
; PE 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; PS WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; XX Claim 1; SEQ ID 365783; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic

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```

; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 6 A; 1 C; 0 G; 5 T; 0 other;
;
; AB165810 Length: 12 September 17, 2003 14:26 Type: N Check: 5553 ..
; ab165810

Query Match      50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY      2740 TCAATAAAT 2749
DB      3 TCAATAAAT 12

RESULT 396
ab167120/c
; TOIG of: ab167120 check: 5999 from: 1 to: 12
; ID AB167120 standard; DNA; 12 BP.
; AC
; AB167120;
; DT
; 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 367093 for detecting SNP TSC0056150.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD
; 18-OCT-2001.
; XX
; PE 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; PS WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; XX Claim 1; SEQ ID 367093; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.

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CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 4 A; 0 C; 2 G; 6 T; 0 other;
; AB167120 Length: 12 September 17, 2003 14:26 Type: N Check: 5999 ..
; ab167120

Query Match
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2743 ATAAATCTCT 2752
|||||
Db 12 ATAAATCTCT 3

RESULT 397
ab170539
TOIG of: ab170539 check: 5899 from: 1 to: 12

ID AB170539 standard; DNA; 12 BP.
XX
AC AB170539;
XX
DT 22-FEB-2002 (first entry)
XX
DE oligonucleotide primer SEQ ID NO 370512 for detecting SNP TSC0058220.
XX
KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB00713.
XX
PR 07-APR-2000; 2000DE-1019173.
XX
PA (EPIG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
DR WPI: 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
PS Claim 1; SEQ ID 370512; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC AB100010-AB182073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 12 BP; 5 A; 1 C; 0 G; 6 T; 0 other;
; AB170539 Length: 12 September 17, 2003 14:26 Type: N Check: 5899 ..
; ab170539

Query Match
Best Local Similarity 100.0%; Score 10; DB 1; Length 12;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2746 AAATCTCTTT 2755
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Db 1 AAATCTCTTT 10

RESULT 398
ab172351
TOIG of: ab172351 check: 5480 from: 1 to: 12

ID AB172351 standard; DNA; 12 BP.
XX
AC AB172351;
XX
DT 22-FEB-2002 (first entry)
XX
DE oligonucleotide primer SEQ ID NO 372324 for detecting SNP TSC0059316.
XX
KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB00713.
XX
PR 07-APR-2000; 2000DE-1019173.
XX
PA (EPIG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
DR WPI: 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
PS Claim 1; SEQ ID 372324; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC AB100010-AB182073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 12 BP; 6 A; 2 C; 0 G; 4 T; 0 other;
; AB172351 Length: 12 September 17, 2003 14:26 Type: N Check: 5480 ..
; ab172351

Query Match
Best Local Similarity 100.0%; Score 10; DB 1; Length 12;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2740 TCAATAAAT 2749
|||||
Db 2 TCAATAAAT 11

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RESULT 399
ABI75344
; TOIG of: ABI75344 check: 5516 from: 1 to: 12
; ID ABI75344 standard; DNA; 12 BP.
; AC ABI75344;
; XX
; XX
; XX 22-FEB-2002 (first entry)
; DT
; XX
; DE Oligonucleotide primer SEQ ID NO 375317 for detecting SNP TSC0061199.
; XX
; XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD
; PD 18-OCT-2001.
; PF
; PF 06-APR-2001; 2001WO-IB00713.
; PR
; PR 07-APR-2000; 2000DE-1019173.
; PA
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; DT
; DT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 375317; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABT00010-ABT82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 6 A; 3 C; 0 G; 3 T; 0 other;
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; ABI75344 Length: 12 September 17, 2003 14:26 Type: N Check: 5516 ..
ABI75344
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Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 2742 AATTAATTC 2751
Db 1 AATTAATTC 10

```

```

; AC ABI75514;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 375487 for detecting SNP TSC0061286.
; XX
; XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD
; PD 18-OCT-2001.
; PF
; PF 06-APR-2001; 2001WO-IB00713.
; PR
; PR 07-APR-2000; 2000DE-1019173.
; PA
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; DT
; DT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 375487; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABT00010-ABT82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 3 A; 0 C; 1 G; 8 T; 0 other;
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; ABI75514 Length: 12 September 17, 2003 14:26 Type: N Check: 6222 ..
ABI75514
Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 2742 AATTAATTC 2751
Db 11 AATTAATTC 2

```

```

RESULT 401
ABI78489
; TOIG of: ABI78489 check: 5627 from: 1 to: 12
; ID ABI78489 standard; DNA; 12 BP.
; AC ABI78489;
; XX
; XX
; XX 22-FEB-2002 (first entry)
; DT
; DE Oligonucleotide primer SEQ ID NO 378462 for detecting SNP TSC006287.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

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; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 378462; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 8 A; 1 C; 0 G; 3 T; 0 other;
; AB178489 Length: 12 September 17, 2003 14:26 Type: N Check: 5627 ..
; ab178489

Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2741 CATTAAATT 2750
Db 3 CATTAAATT 12

RESULT 402
ab179494
; TOIG of: ab179494 check: 5742 from: 1 to: 12
; ID AB179494 standard; DNA; 12 BP.
; XX
; AC AB179494;
; XX
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 379467 for detecting SNP TSC0063301.
; XX
; SNF: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
```

```
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 379467; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 6 A; 2 C; 0 G; 4 T; 0 other;
; AB179494 Length: 12 September 17, 2003 14:26 Type: N Check: 5742 ..
; ab179494

Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2741 CATTAAATT 2750
Db 1 CATTAAATT 10

RESULT 403
ab179687/c
; TOIG of: ab179687 check: 5988 from: 1 to: 12
; ID AB179687 standard; DNA; 12 BP.
; XX
; AC AB179687;
; XX
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 379660 for detecting SNP TSC0008634.
; XX
; SNF: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
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DR WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
PS Claim 1; SEQ ID 379660; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically and/or pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABI00010-ABI82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
XX SQ Sequence 12 BP; 2 A; 0 C; 2 G; 8 T; 0 other;
Abi179687 Length: 12 September 17, 2003 14:26 Type: N Check: 5988 ..
abi179687

Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2739 CTCATTAATAA 2748
IIIIIIIII
Db 11 CTCATTAATAA 2

RESULT 404
abi80367/c
TOIG of: abi80367 check: 5658 from: 1 to: 12

ID ABI80367 standard; DNA; 12 BP.
AC ABI80367;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide primer SEQ ID NO 380340 for detecting SNP TSC0063781.
XX
KM SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW Peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX Homo sapiens.
OS
XX WO200177384-A2.
PN
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB00713.
XX
PR 07-APR-2000; 2000DE-1019173.
PA (EPIG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
DR
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
PS Claim 1; SEQ ID 380340; 29pp + Sequence Listing; German.

```

CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABH99989, ABH00010-ABH99989 and
CC ABI00010-ABI82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
CC : xx
SQ Sequence 12 BP; 7 A; 0 C; 1 G; 4 T; 0 other;
:
ABI80367 Length: 12 September 17, 2003 14:26 Type: N Check: 5658 ..
abi80367
Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2744 TAAATTCCTT 2753
10 TAAATTCCTT 1
Db
RESULT 405
abi81874/c
TOIG of: abi81874 check: 6126 from: 1 to: 12
ID ABI81874 standard; DNA; 12 BP.
XX
XX ABI81874;
AC
XX
XX
XX 22-FEB-2002 (first entry)
DX
XX
DE Oligonucleotide primer SEQ ID NO 381847 for detecting SNP TSC0064580.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
PN WO200177384-A2.
PD
XX 18-OCT-2001.
PP
XX 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
PR
XX (EPIC-) EPIGENOMICS AG.
PA
XX
XX Olek A, Piepenbrock C, Berlin K;
PI WPI; 2001-657177/75.
DR
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
PT
XX Claim 1; SEQ ID 381847; 29bp + sequence listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX

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; CC ABI00010-ABI82073 represent the oligomers described in the invention.  
; CC NOTE: The sequence data for this patent did not form part of the printed  
; CC specification, but was obtained in electronic format from WIPO at  
; CC ftp.wipo.int/pub/published_pct_sequences.  
; XX  
; SQ Sequence 12 BP; 3 A; 0 C; 2 G; 7 T; 0 other;  
; ABI81874 Length: 12 September 17, 2003 14:26 Type: N Check: 6126 ..  
abi81874
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Query Match 50.0%; Score 10; DB 1; Length 12;  
Best Local Similarity 100.0%; Pred. No. 1.4e+02;  
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 2742 AATPAAATTC 2751  
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Db 12 AATPAAATTC 3
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Search completed: September 17, 2003, 14:42:42
Job time : 2 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: September 17, 2003, 16:11:23 : Search time 0.001 seconds
(without alignments)
1.760 Million cell updates/sec

Title: us-09-898-556a-3

Perfect score: 20

Sequence: 1 gtcataataatcttcttct 20

Scoring table: IDENTITY_NDC
Gapop 10.0 , Gapext 0.5

Searched: 4 seqs, 44 residues

Total number of hits satisfying chosen parameters: 8

Minimum DB seq length: 0

Maximum DB seq length: 50

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : rgehits.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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2	11	55.0	11 1 ax632707	TOIG of: ax63270
3	10	50.0	11 1 ax633029	TOIG of: ax63302
4	10	50.0	11 1 ax630450	TOIG of: ax63045
5	6.8	34.0	11 1 ax633029	TOIG of: ax63302
6	6.8	34.0	11 1 ax630450	TOIG of: ax63045
7	5.8	29.0	11 1 ax625286	TOIG of: ax62528
8	5.8	29.0	11 1 ax632707	TOIG of: ax63270

ALIGNMENTS

RESULT 1
ax625286
TOIG of: ax625286 check: 4751 from: 1 to: 11

LOCUS AX625286 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 2327 from Patent WO02053774.

ACCESSION AX625286
VERSION AX625286.1 GI:28453227

KEYWORDS Homo sapiens (human)

SOURCE Homo sapiens

ORGANISM Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

REFERENCE 1
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

AUTHORS Petersohn, D., Conradt, M. and Hofmann, K.

TITLE Method for determining homeostasis of the skin

JOURNAL Patent: WO 02053774-A 2327 11-JUL-2002;

FEATURES
Location/Qualifiers
1..11

/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"

Query Match
Best Local Similarity 100.0%; Pred. No. 0.9;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

ax625286 Length: 11 September 17, 2003 16:03 Type: N Check: 4751 ..

QY 2741 CAAATAAATTC 2751
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DB 1 CAAATAAATTC 11

RESULT 2
ax632707

TOIG of: ax632707 check: 4751 from: 1 to: 11

LOCUS AX632707 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 9749 from Patent WO02053774.

ACCESSION AX632707
VERSION AX632707.1 GI:28468322

KEYWORDS

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1
Petersohn, D., Conradt, M. and Hofmann, K.

TITLE Method for determining homeostasis of the skin

JOURNAL Patent: WO 02053774-A 9749 11-JUL-2002;

FEATURES
Location/Qualifiers
1..11

BASE COUNT 6 a 2 c 0 g 3 t

ax632707 Length: 11 September 17, 2003 16:04 Type: N Check: 4751 ..

Query Match
Best Local Similarity 100.0%; Pred. No. 0.9;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2741 CAAATAAATTC 2751
|||||

DB 1 CAAATAAATTC 11

RESULT 3
ax623029

TOIG of: ax623029 check: 4938 from: 1 to: 11

LOCUS AX623029 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 70 from Patent WO02053774.

ACCESSION AX623029
VERSION AX623029.1 GI:28450970

KEYWORDS Homo sapiens (human)

ORGANISM Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

REFERENCE 1
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

AUTHORS Petersohn, D., Conradt, M. and Hofmann, K.

TITLE Method for determining homeostasis of the skin

JOURNAL Patent: WO 02053774-A 70 11-JUL-2002;

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;; FEATURES                               Henkel Kommanditgesellschaft auf Aktien (DE)
;;                                     Location/Qualifiers
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;;       /organism="Homo sapiens"
;;       /mol_type="genomic DNA"
;;       /db_xref="taxon:9606"
;;   BASE COUNT
;;     6 a 1 c 0 g 4 t
;;   ORIGIN
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;; AX623029 Length: 11 September 17, 2003 16:04 Type: N Check: 4938 ..
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Query Match
Best Local Similarity 50.0%; Score 10; DB 1; Length 11;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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LOCUS AX630450 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 7491 from Patent WO02053774.
ACCESSION AX630450
VERSION AX630450.1 GI:28458488
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
REFERENCE
1 Petersohn,D., Conradt,M. and Hofmann,K.
  Method for determining homeostasis of the skin
  Patent: WO 02053774-A 7491 11-JUL-2002;
  Henkel Kommanditgesellschaft auf Aktien (DE)
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; Petersohn,D., Conradt,M. and Hofmann,K.
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; Henkel Kommanditgesellschaft auf Aktien (DE)
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; Petersohn,D., Conradt,M. and Hofmann,K.
; TITLE
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